International Conference on Multidisciplinary Industry and Academic Research

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3RD INTERNATIONAL CONFERENCE on Multidisciplinary Industry and Academic Research (ICMIAR) 2022

"Sustaining Community Resilience through Education and Research"

July 29 - 30, 2022 • Virtual Conference

CONFERENCE PROCEEDINGS

DISCLAIMER

The standpoint and perspective of the authors as expressed in their research articles do not necessarily reflect the stance of the publisher, the editors and the conference committee members. In addition, the author is solely responsible for the originality, authenticity of the data and information and proofreading of their research papers.

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V

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 postmillennial boundaries through collaborative and dynamic strategies.

About the conference



The global community gears toward industry sustainability and independence. However, there is thin line of interconnectedness amongst the global key players. Thus the International Conference on Multidisciplinary Industry and Academic Research (ICMIAR) brings forth a venue for the various industry

key players to connect and collaborate. If focuses on the current issues and trends on both the academe and industry and the various facets of their interconnectedness.

Objectives

The conference aims to:

- provide a platform for the academic and industry research outputs;
- continuously develop strong research culture among industry and academic professionals;
- enhance free and accessible knowledge sharing through industry benchmark, sharing of best practices and relevant training;
- educate the community of scholars through updates on current topics and issues in the industry and the academe;
- develop relevant professional skills through the training, symposium and workshop;
- foster collaboration among industry and academic professionals around the globe; and
- develop camaraderie among fellows in the industry and academic community.

Conference Committee Members



Dr. Rodrigo M. Velasco IIARI President



Dr. Karen Joyce G. Cayamanda Director – Conferences & Events



Dr. Diobein C. Flores Conference Chair

Conference Session Chairs



Ts. Dr. Masyitah Md Nujid



Dr. Elaine Joy C. Apat



Ts. Dr. Duratul Ain Tholibon





Dr. Portia R. Marasigan

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CONFERENCE PROGRAM

Day 1 – July 29, 2022

Opening Program

9:00AM Philippine Standard Time

Prayer

The IIARI and ICMIAR

Welcome remarks

Dr. Diobein C. Flores Conference Chair

Introduction to keynote speaker

Keynote address

Dr. Arlene B. Dela Cruz Vice President for Academic Affairs Aklan State University, Philippines

Presentation of partners and collaborators

Presentation of delegates

Guidelines and Decorum

Prof. Simeon R. Ricalde Master of Ceremonies

Break - 10:00AM - 10:05AM

Plenary Session 1

10:05AM Philippine Standard Time

Introduction to keynote speaker

Keynote Address

Dr. Tengku Intan Suzila Tengku Sharif Universiti Teknologi Mara

Pahang Branch, Malaysia

Open Forum

Prof. Simeon R. Ricalde Master of Ceremonies

Break - 10:55AM - 11:00AM

Paper Presentations 11:00AM Philippine Standard Time

A Modified Social Amplification of Risk Framework towards a Communication Management for Flood-Risk Reduction

Authors: Karen Joyce Cayamanda, Rowena D.T. Baconguis, Maria Ana T. Quimbo, Maria Stella C. Tirol, Jose V. Camacho, Jr. & Merlyne M. Paunlagui

Understanding The Dynamics of Triarchic Intelligences and Instructors Competence in The Landscape of Science Education *Author: Diobein C. Flores*

The Effectiveness of Peer Discussion in Teaching Physics at the High School Level Authors: Padauk Win & Nway Pyae Pyae

Governance Risks and Employee Retention: An Industry Risk and Outlook During Pandemic Author: Elaine Joy Apat

PD-DAT: A Mobile Application for Parkinson's Disease Early Detection and Therapy *Author: Maricel M. Gaspar*

BikeMate: An Android App with Data Analytics for BMI Monitoring *Author: Myra G. Flores*

Effects of Expressive Writing On the Health Conditions of College Students *Author: Portia R. Marasigan*

Use of Internet Financial Reports in Budget Projections: Experience of Undergraduate Performance Management Students *Author: Rodrigo M. Velasco*

Effect of Lockdown as a Function of Human Happiness – A Pilot Study *Author: Rekha Mahajan*

Ts. Dr. Duratul Ain Tholibon Session Chair

Break - 12:30PM - 1:00PM

Plenary Session 2

1:00PM Philippine Standard Time

Introduction to keynote speaker

Keynote Address

Dr. Ali Al Hassnawi Director – QA & Accreditation Department Sohar University, Oman

Open Forum

Prof. Julio Ramillo A. Mercurio

Master of Ceremonies

Break - 1:55PM - 2:00PM

Parallel Sessions

2:00PM Philippine Standard Time

Track: Business, Management and Accounting

Effects of Supermarket on Small Retail Business Authors: Raul R. Agaran, Darlene U. Banaera, Katrin I. De Villa & Jay Pee D. De Villa

Establishing, Piloting, and Evaluating Community-Managed Tour Trek in Sagnay, Camarines Sur *Author: Ariane Pesimo-Abundabar*

Selected Factors Affecting the Subsectors of the Philippine Agriculture: A Panel Regression Analysis *Author: Patrick Diaz*

The Effect of Structural Change On Labor Productivity Growth and Employment in The Philippines *Author: Mikhael D. Laurente*

An Analysis of Reverse Repurchase Rate on Selected Monetary Policy Indicators: A Vector Autoregression *Author: Martin Roy Base*

Delivery of Environmental Management Programs in the Municipality of Banga, Aklan, Philippines *Authors: Jyanee Loi D. Yecla, Cecilia T. Reyes, Cecile O. Legaspi & Anna Mae C. Relingo* Management Styles and Entrepreneurial Skills of Managers in Real Estate Development Companies in Quezon *Author: Zarah Ydizza A. Ranuda*

Dynamics of Job Satisfaction and Its Intervening Effect: An Empirical Study of Diversified Company Author: Noleesha Francess, Anuradha Iddagoda & D.H.S.W. Dissanayake

Break - 3:30PM - 3:45PM

Track: Humanities and Social Sciences

Indigenous Beliefs, Knowledge, and Practices on Fishing and Climate Change Adaptation: A Case Study Amongst Fishers in San Sebastian, Lagonoy, Camarines Sur

Authors: Manny S. Israel & Sean A. Sierra

The Existence of the Rule of Law Depicted in Editorial Cartoons in Sri Lanka *Authors: P. J. Ashawarie Karunanayake*

Resource and Hazard Analysis of Selected Farmland Communities Along Bicol River Authors: Jessica Dionne Nunag

Competencies of Classroom Teacher-Counselor and Students' Self-Esteem: Basis for School-Based Counselling Program of Humanities and Social Sciences *Authors: Bel Partice T. Tisuela & Elsa D. Callo*

Teen Suicide in One Province in Cordillera Authors: Marcel B. Atianzar, Evarista B. Gano & Charesma Grace K. Lud-ayen

The Use and Effects of Smartphones in Students' Learning Activities *Authors: Eric S. Parilla & Marc Edward M. Abadilla*

Linking Global Competitiveness and Economic Growth to Climate Change *Author: Febrielyn S. Tumines*

Dr. Elaine Joy C. Apat Session Chair

Wrap-up - 4:55PM - 5:00PM

Track: Educational Management and Development Studies

Teachers' Efficacy with The Use of Technology in Teaching English *Authors: Judith M. Reyes & Jasper M. Del Valle*

Teachers' Views on the Incorporation of Bioethics Courses in Primary School Syllabus Authors: Balatsou Maria & Theologou Kostas

Parent's-Teacher's Partnership Program for English 4 Students of Kinabuhayan Elementary School *Authors: Raquel Luna & Jasper M. Del Valle*

Level of Interest and Travelogue as Supplementary Learning Tool Towards Historical Thinking Skills of Grade 7 Students in Araling Panlipunan *Authors: Mark Ed M. Reyes & Nelia T. Salvador*

The Use of Grammatical and Mechanical Error Analysis Approach: Basis for a Writing Improvement Program for Student Journalists *Authors: Regine Oguan & Jasper M. Del Valle*

Services Offered by Admission and Registration Office: An Evaluation *Authors: Raquel M. Ballares*

Development and Evaluation of Instructional Module for Special Program in Journalism Authors: Jayson O. Yongco & Jasper M. Del Valle

Creating A Conducive School Climate for Improved Teacher's Performance and Satisfaction in Public Elementary Schools *Authors: Luningning Maderazo & Delon Ching*

Communicative Competence and Oral Language Usage of Grade 9 Learners at Sta. Anastacia- San Rafael National High School: Inputs to the Creation of Speaking Activities *Authors: Rosel Bernadette A. Bautista & Jasper M. Del Valle*

Parental Involvement in Modular Distance Learning and The Numeracy Skills of Grade

7 Students in The New Normal Author: Rica Gloria T. Lara

Flipped Classroom Practices in Improving the Economic Skills and Social Learning of Grade 9 Students Authors: Divina M. Hidalgo & Elsa C. Callo

Teachers' Leadership Competencies and Communication Behavior Towards Better Academic Performance and Engagement of Grade 2 Pupils *Authors: Rebecca Alicando & Delon Ching* Problem-based Infographic Material for Advancing Scientific Knowledge of Grade 7 Modular Distance Learners *Authors: Fatima Aguilar & Julie Fe D. Panoy*

Gender-Responsive Principles Awareness and Factors Influencing Track Preferences Toward Life Skills of Senior High School *Authors: Roselle Becina & Zenaida M. Cuenca*

Break - 4:00PM - 4:05PM

Track: Science, Technology, Engineering and Mathematics

Problem-Based Learning Materials in Upskilling of Critical Thinking Skills in Mathematics Authors: Ideza Carmela Magpantay & Allen Pasia

Fabrication of Battery-Operated Roof Paint Sprayer with Automatic Charging Off System *Authors: Romel B. Panis*

Understanding Contraceptive Data Through Data Science Before and During Pandemic Authors: Eric M. Valenzuela, Mary Joy M. Nadres, James Steven Cordero & Ruth Marie A. Tubog

Scenario-Based Microlearning Strategy for Improved Basic Science Process Skills and Self Directed Learning of Grade 6 Pupils *Author: Leonardo F. Zulueta & Julie Fe D. Panoy*

Importance and Use of Electrochemical Sensors for the Determination of Heavy Metals in Blood Tests *Author: Manjola Bani*

> Ts. Dr. Masyitah Md Nujid Session Chair

Wrap-up - 4:55PM - 5:00PM

Day 2 - July 30, 2022

Opening Program 9:00AM Philippine Standard Time

Prayer

Welcome remarks

Dr. Delon A. Ching Session Chair

Messages

Dr. Robert C. Agatep VP for Research Development and Extension Laguna State Polytechnic University

Dr. Mario R. Briones President Laguna State Polytechnic University

The LSPU

Guidelines and Decorum

Prof. Chester M. Derequito Master of Ceremonies

Master of Ceremonies

Break - 9:30AM - 9:35AM

Parallel Sessions

9:35AM Philippine Standard Time

Track: Educational Management and Development Studies

Online Distance Learning Barriers and Their Implication in The Delivery of Instruction in The New Normal *Author: Mark Paul O. Moraleja*

Exploring the Online Students' Support During the Covid-19 Pandemic Towards the Development of The 21st Century Life and Skills of LSPU Students *Author: Jherwin P. Hermosa & Alberto B. Castillo*

Mathematics Learning Strategies and Ability of the Students in One State University *Author: Arlene P. Madrio* Online Teaching-Learning Modality in The Wake of Pandemic: Its Efficacy and Comfortability Among Tertiary Educators *Author: Paulina Q. Quisido*

Status of Outreach Sports Program in Higher Education Institutions for Out of School Youth Amidst Pandemic: Perspective to Effective Organized Sports *Author: Darwin O. Ofrin*

Instructional Technology Delivery Mode, Teaching Effectiveness, And Students' Satisfaction: Inputs to Industrial Technology Program Enhancement *Author: Gary V. Delos Reyes*

Impact of Synchronous Class Attendance On the Academic Performance of Second-Year BSIT Students *Authors: Percia V. Secreto & Eudora C. Tabo*

Self-Regulation in A Self-Paced Learning Environment Towards a More Engaged Engineering Students in One State University *Authors: Angela L. Reginaldo, Paul Enrico Puyo, Delon A. Ching & Mario Briones*

Teaching Effectiveness: A Design Feedback Process of One State University in The Philippines Authors: John Vincent C. Aliazas, Allen Pasia & Jocelyn V. Madrideo

Attitude Toward Communicative Language Teaching and The Oral Proficiency of Students

Authors: Cecilia B. Diva, Chester Derequito, Michelle Sarmiento, Alelie Lorna Daquil, Rose R. Andrade & Delon A. Ching

Sports Performance Strategies for Better Athletic Performance Among Students in The Master's Level

Authors: Darwin Ofrin, Elaine Francisco, Roger Gimpaya, Jherwin Hermosa, Delon A. Ching & Allen A. Pasia

Strategic Thinking Strategy Toward Higher Critical Analysis of Students in The Graduate Program

Authors: Jherwin Hermosa, Lucila Palacio, Rona Almazan, Maria Cristian Palacio, Delon A. Ching & Allen E. Pasia

Profiling, Patterns of Intake and Perceived Side Effects on the use of Over-the-Counter (OTC) Non-Steroidal Non-Inflammatory Drugs *Authors: Rose Ann Z. Masa, Maria Leonora Theresa P. Rosal & Michelle T. Flores*

Towards The Development of Lifelong Learning: An Assessment of the Collective Leadership Practices and Implementation of Student Support Services *Author: Alberto Castillo* Teaching Efficacy Structures and Influencing Factors in Promoting Success and Retention Among Pre-Service Teachers *Authors: John Vincent C. Aliazas, Anna Liza Del Rosario & Rose Andrade*

> Dr. Delon A. Ching Session Chair

Break - 10:30AM - 10:45AM

Track: Humanities and Social Sciences

Irrational Beliefs and Panic Response of Lagunense During the Height of Covid-19 Pandemic *Author: Jherwin P. Hermosa*

Psychological Distress, Coping and Post-Discharge Experience of Covid-19 Survivors: Basis for The Development of Therapy *Author: Livien U. Ciabal*

Context of Sexual Harassment Among Junior and Senior High School Students *Authors: Gelbert A. Llanto & Jennifer A. Valdez*

Social and Emotional Learning of Filipino Major Students Authors: Marinella S. Alcantara, Lorie Ann B. Austria, Michelle B. Sarmiento & Delon A. Ching

Rainbow in The Convent: LGBTQ+ Community and Religious Vocation Inclusivity *Author: Jherwin P. Hermosa*

Break – 10:25AM – 10:35AM

Track: Business, Management and Accounting

Documenting The Performance Evaluation of Job Orders in One State University: Input to Policy Recommendation On Personnel Counseling Program *Authors: Nicole Silvestre, Roi Ivanne De Hitta, Mario R. Briones, Annaliza B. De Roma & Delon Ching*

Expectations On Key Success Competencies of the Hospitality Management Students: An Analysis of Flexible Learning Outcomes

Authors: Ninevetch Grace O. Marco, Lorena H. Garcia, Adrian G. Maliksi, Anicia C. Pampolina & Delon A. Ching

Cyclescapes: Revolutionizing Biking Facilities Towards Inclusive Mobility Authors: Princes Mina L. Dones, Vladimer L. Chavenia, Jean Irish C. Fule, Jeanelyn R. Rodegerio & Michelle C. Gonzales

Training Needs Assessment of K-12 Teachers On Food Related Subjects: An Input for Feasible Extension Project *Author: Thessalonica M. Sinohin*

Person-Environment Fit: Empowering Leadership Practices On Teachers' Work Engagement and Motivation *Authors: John Vincent C. Aliazas, Billy Ray P. Panoy & Adora C. Baguna*

Ethical Practices and Organizational Sustainability of a State University in San Pablo City Laguna, Philippines *Authors: Marierose Valenzuela, Lorena H. Garcia, Elaine Joy C. Apat & Mario R. Briones*

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Employers' Feedback On the Job Performance of Graduates of One Higher Educational Institution in The Philippines *Authors: Jennelyn E. Espinueva, Clarissa Gregana, Allen E. Pasia & Delon A. Ching*

Learners' Competencies: Its Relation to The Financial Literacy Skills and Practices Among Third Year Students *Authors: Julieta A. Sumague*

Investigating The Effects of Technostress Towards Institutional Functions and Life Satisfaction Among LSPU Instructors Authors: Elaine Francisco & Jherwin Hermosa

Ethical Practices of Laguna State Polytechnic University: Basis for Designing Organization Sustainability Authors: Ismaela Bawica, Carol Maghirang, Desiree L. Wagan & Delon A. Ching

> Dr. Portia R. Marasigan Session Chair

Break - 12:30PM - 2:00PM

Awarding and Closing Program 2:00PM Philippine Standard Time

Words of thanks

Dr. Diobein C. Flores Conference Chair

Dr. Karen Joyce G. Cayamanda Director – Conferences & Events

Dr. Rodrigo M. Velasco President

Testimonial from Participants

Giving of Awards

Ts. Dr. Duratul Ain Tholibon Ts. Dr. Masyitah Md Nujid Dr. Elaine Joy C. Apat Dr. Delon A. Ching Dr. Portia R. Marasigan Session Chairs

Closing remarks

Dr. Elaine Joy C. Apat Session Chair

Prof. Julio Ramillo A. Mercurio Master of Ceremonies

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MESSAGE

Like a phoenix from the ashes, the Institute of Industry and Academic Research Incorporated rise above all the adversities since its inception in 2020. Being new to the publishing industry where a lot of predatory, bogus and profit-oriented key players, was never easy. The IIARI has to thrive to gain the confidence and trust of the researchers worldwide. Aside from journals, books and research competitions, the organization successfully launched the International Conference on Multidisciplinary Industry and Academic Research (ICMIAR) as the venue for academic and industry experts to share their research outputs with the international community. Now in its 3rd year, ICMIAR has paralleled with other international virtual conferences. The slow yet steady growth of the organization emanates from its strong commitment to providing quality publications anchored on legal ethics and strong support service.

At IIARI, we believe that legal registration is fundamental to providing better services. As such, the organization is a registered publisher in the Philippine Securities and Exchange Commission, a registered book publisher in the National Book Development Board Philippines and a registered CPD provider in The CPD Certification Services, United Kingdom. These legal foundations serve as the strong marketing agents that differentiate us from other publishers. We are proud that although new in this industry, we had a fair share of great accomplishments. We attribute these to a formidable team of experts from different colleges, universities and industries around the world. We take pride in giving recognition to our editors, reviewers and members who selflessly share their time and expertise to provide quality reviews and other support services.

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 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. The ICMIAR is an exemplar of our commitment with its 'one payment for three benefits' brand. Similarly, we put every researcher on top of our priorities.

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 Gulf College IIARI President

MESSAGE

On behalf of the IIARI Board, I welcome all the participants to the International Conference on Multidisciplinary Industry and Academic Research (ICMIAR) 2022. This is the third year of this annual conference which aims to bring together scholars, researchers and professionals from the industry and the academe to exchange updates and share empirical information with multidisciplinary approaches.

We offer this year's conference with the theme: "Sustaining Community Resilience through Education and Research" with the four tracks in educational management and development studies; business, management, and accounting; social sciences and humanities; science, technology, engineering, and mathematics. We have put together the different experiences, narratives and research undertakings that reflect the resilience of the communities utilizing education and research as tools to transcend the challenges of the COVID-19 pandemic.

It is guite impressive that despite the trying times and the abrupt shift from face-to-face to remote learning and research, we were able to come up with a substantial representation of research studies that showcases the efforts of the scholars from the academe and the industry in sustaining research undertakings and surpassing the constraints and difficulty in the remote modalities.

We are fortunate to have them share this information with us through this conference.

I am confident that this will be a very meaningful contribution to IIARI's efforts in mainstreaming the complementarity of the academe with the industry-based research, highlighting the significant role of the integration between the academic scholars and the industry partners.

We look forward in creating more opportunities for multidisciplinary activities and events that can serve as avenues for intellectual discussions and explore further collaborations with various academic partners.

Our major goal is to sustain the resiliency of the academic and industry communities through collaborative education and research. Let us enjoin our members and partners to this end goal.

Again, my warmest Congratulations to the participants as well as the organizers of ICMIAR 2022. Cheers!

> Assoc. Prof. Karen Joyce G. Cayamanda, PhD University of the Philippines Mindanao, Philippines IIARI Director – Conferences and Events

<u>MESSAGE</u>

The relevance of education and research fetches the detrimental effect of anthropogenic activity from its community complexity. Community resilience expands conventional initiatives by encouraging actions of the populace towards strong community systems and addressing the many factors that contribute to human growth and development.

At this event, it will be my pride and honor to welcome you to this 3rd International Conference on Multidisciplinary Industry and Academic Research (ICMIAR) 2022. This signature virtual occasion is directed with its theme: Sustainable Community Resilience through Education and Research. Academic scholars gather themselves through an online platform in order to extend its work and studies that could contribute to the body of knowledge.

The affair is not only delimited for a chance to acquaint high-minded people in the field of education and research. It also a gathering shaped up to be excellent and the networking opportunities for the exchanged of thoughts, ideas, knowledge and innovations among other researchers throughout the world. Lastly, sharing of experience of renowned speakers in the field of research is one of the gist that might the participants to explore and look into.

As the conference chair, my warmest congratulations ahead to the entire family of Institute of Industry and Academic Research Incorporated, spearheaded by the President, Dr. Rod Velasco. This kind of opportunity is a show window among people who extend hard work in order to ensure well-responsive researches towards community dynamism. The effort of the entire organizing committee members is truly tantamount to their dedication and commitment, ensuring that the initiative will become successful and noted as an exemplary endeavor.

> Dr. Diobein C. Flores Sto Tomas College of Agriculture, Sciences and Technology Conference Chair

Educational Management and Developmental Studies Track

Understanding the Dynamics of Triarchic Intelligences and Instructors Competence in the Landscape of Science Education

Diobein Caminero Flores

Sto. Tomas College of Agriculture, Sciences and Technology

ABSTRACT

In an academic institution, emphasizes on the important role of the faculty is noted. In order to understand its instructional language and capacities, a correlational study was conducted. Using the universal sampling technique, it was revealed that there was a very high level of triarchic and instructional competence manifested by the instructors; it doesn't matter as to what program they belong. Moreover, analytical, creative and practicality contributed much to the instructors' competence. Thus, academic officials must hone its faculty to maximum extent towards critical analysis, mobilization of processes and skills of scientific knowledge, and artistry in transferring of scientific works and dimensions.

Keywords: Dynamics of Triarchic Intelligences, Instructional Competence, Science Education, STCAST, Triarchic Intelligences

About the presenter:

Dr. Diobein C. Flores is a lecturer, innovator, leader, and researcher. He is renounced as the youngest College President of Region XI. He is currently leading a local college in the Province of Davao del Norte – Santo Tomas College of Agriculture Sciences and Technology. He is an awardee in the field of leadership, instruction, research, management, and science and technology. He is a graduate of Bachelor of Secondary Education, majoring in General Science and Bachelor of Science in Criminology where he successfully passed the mandated licensure examinations. He was also able to earn Master of Arts in Education major in General Science, Master of Public Administration, and units on his Master of Science in Criminology. He also completed Doctor of Education major in Educational Management and Doctor of Public Administration. Today, he is working on his dissertation, writing for his other doctorate degree, Doctor of Philosophy major in Science Education.



Teachers' Efficacy with the Use of Technology in Teaching English

¹Judith M. Reyes & ²Jasper Del Valle

¹San Pablo City Integrated High School; ²San Pablo Colleges

ABSTRACT

This study aimed to examine the common technology being used by the participants, their perceived efficacy level in using technology, and the challenges they face in using those. The research utilized a descriptive type of method that used purposive sampling technique to select the 30 teachers from different private schools in San Pablo City, A.Y. 2020-2021. A researcher-made questionnaire was used to find out the common technologies being used by the participants, their perceived efficacy level, and the challenges they faced in using those. Moreover, the respondents identified smartphone as hardware device they commonly used. In contrary, for software apps they commonly used zoom as videoconferencing software app, web browsers as reference software app, and social networking sites as forum software apps. On the other hand, the respondents perceived that they have high level of efficacy with the use of hardware devices. They also have high level of efficacy in using each type of software apps such videoconferencing software, reference software, and forum software. In addition, the result of this study showed that there are four major challenges they faced in using technology, these are keeping up with changes, fixing troubleshoots, slow internet connection, and lack of familiarity. Generally, the results lead the research to develop a guidebook, titled "Hi Teach" which may be put into evaluation and validation process to determine its possible strength to be utilized in different classroom purposes.

Keywords: technology, hardware devices, software apps, efficacy level. TPACK, guidebook

About the presenter:

Judith M. Reyes is a licensed professional teacher with 4 yearsexperience. She earned Bachelor's degree in Education at Laguna State Polytechnic University-San Pablo City Campus on 2017. Last 2021, she also finished Master's Degree in Education, Major in English. She is currently working at San Pablo City Integrated High School as Junior and Senior High School English Teacher. For her, research empowered her teaching methods to lead more strategically and effectively. As a passionate and enthusiastic educator, she realized the value of research in many aspects of life, but most especially in education. Her research interests are teacher education and professional development, teacher evaluation, teacher identity and students' progress.



Teachers' Views on the Incorporation of Bioethics Courses in Primary School Syllabus

Balatsou Maria & Theologou Kostas

National Technical University of Athens

ABSTRACT

The current study is a pilot survey of future research that seeks to record the views of Primary Education (PE) teachers with respect to the promotion of bioethics literacy in PE through the incorporation of bioethics in the syllabus of primary schools. In this study, which took place in Athens from March 10, 2020, until May 10, 2020, all the appropriate research tool (questionnaire) refinements have been considered before its finalization. The Snowball sampling method has been used for primary school teachers of various disciplines. Furthermore, the requirements of the mixed research (qualitative and quantitative – triangulation) are met. Research data have been collected through an open-ended type questionnaire comprising 10 questions pertaining to the incorporation of bioethics in the PE syllabus and the data process has been performed with the use of the Content Analysis Method. The majority of the participants showed a positive attitude towards the perspective of the introduction of bioethics courses in PE and expressed their thoughts and concerns about the implementation of this endeavor. The most important finding is the perception of the importance of bioethics literacy in PE.

Keywords: Bioethics, Literacy, Primary Education, Good Practice

About the presenter:

Maria Balatsou studied Pedagogy at the Faculty of Primary Education of the National and Kapodistrian University of Athens. She also holds an MSc in International Medicine -Health Crisis Management from the Medical School of National and Kapodistrian University of Athens.She currently works as an assistant manager and teacher at Greek Primary School. She is currently completing her Ph.D. at the National and Technical University of Athens under the supervision of Associate professor K. Theologou. She has many hours of training in Postgraduate Programs for Learning Difficulties in Children, ADHD, Psychology, and School Reality Management. She is a member of the "Hellenic Society for the Study of Attention Deficit Hyperactivity Disorder" and of the "Scientific Association for the Promotion of Educational Innovation".



Parents-Teachers Partnership Program for English 4 Students of Kinabuhayan Elementary School

¹Raquel M. Luna & ²Jasper M. Del Valle ¹Kinabuhayan Elementary School; ²San Pablo Colleges

ABSTRACT

This study was purposely conducted to develop a parent-teacher partnership program to improve learner's academic performance in English 4 by determining learner's academic performance, perception of the parent-child relationship, and on parental involvement in six categories as to parenting, communicating, volunteering, learning at home, decision-making, and collaborating with the community. Descriptive Research Design was utilized through survey method wherein 24 Grade IV learners under modular distance learning modality of Kinabuhayan Elementary School were purposively selected as respondents. Learner's perception on parent-child relationship showed positive relationship, while learner's showed a significant relationship between the parent-child relationship and parental involvement. However, there is no significant relationship between academic performance in English on their perception of the parent-child relationship and parental involvement. The study suggested that PTA officers along with teachers may conduct a classroom-based program to assist learners at risk in English. Teachers may also review the parent-teacher partnership program so that it will be aligned with the learning needs of their students.

Keywords: Academic Performance, Parental Involvement, Parent-Child Relationship, Parent-Teacher Partnership Program

About the presenter:

Raquel M. Luna is currently a public school teacher at Kinabuhayan Elementary School in Dolores, Quezon. She is handling Grade 4 level and a Supreme Pupil Government (SPG) adviser for 5 years. She graduated from Pamantasan ng Lungsod ng San Pablo, former known as (DLSP). She took up vocational course at Aceba System Technology Institute, major in Computer Programming at Tiaong Quezon. She is also an MA Graduate, major in English at San Pablo Colleges, San Pablo City. Before entering into teaching career, she was once a production operator at Optis Philippines Inc. for 3 years. She is already widowed and looked after her 10 year old daughter. Like any other women, she also loves singing, dancing and painting. She is hardworking, optimistic, and God-fearing.



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Development and Evaluation of Instructional Module for Special Program in Journalism

¹Jayson O. Yongco & ²Jasper M. Del Valle

¹San Pablo City Integrated High School; ²San Pablo Colleges

ABSTRACT

The study aimed to develop and evaluate the instructional module for special program in journalism for grade 8 students. Specifically, it is geared towards probing the errors encountered in learning resource construction and the recommendations in enhancing the instructional material through guestionnaires and guidelines for Learning Resource Material (LRM) production. Data were gathered from 40 Grade 8, Journalism students enrolled at San Pablo City Integrated High School during the S.Y. 2020- 2021 and ten (10) specialists who were purposively selected. The instruments used in the study were the researcher-made module and questionnaire and Department of Education's evaluation rating sheet for print resources. The data were collected and treated using Mean and Standard Deviation. Findings revealed that modular Distance Learning (MDL) is the most preferred learning modality of the Grade 8, Journalism students of San Pablo City Integrated High School having 40 out of 40 or 100% modular enrolment ratio. Majority of them preferred modular distance learning since it allows them to feel safe for there is no physical contact amidst COVID-19 pandemic. The evaluation ratings of the instructional module had strong agreements on all the criteria for evaluation in terms format, content, clarity, and usefulness. The instructional module also passed the evaluation of the specialists in terms of content, format, presentation and organization but failed accuracy and up-to-datedness.

Keywords: Learning Resource Material, Learning Modalities, Modular Distance Learning, Special Program in Journalism

About the presenter:

Jayson O. Yongco is a graduate of Master of Arts in English at San Pablo Colleges. Currently, he is the school paper adviser at San Pablo City Integrated High School and a devoted public servant for the church and the youth at Laguna.



Communicative Competence and Oral Language Usage of Grade 9 Learners at Sta. Anastacia- San Rafael National High School: Inputs to the Creation of Speaking Activities

¹Rosel Bernadette A. Bautista & ²Jasper M. del Valle

¹Sta. Anastacia- San Rafael National High School; ²San Pablo Colleges

ABSTRACT

Communicative competence is heavily emphasized under the K-12 Basic Education Curriculum as language is the primary instrument of thought. Hence, the goal of this study is to create speaking activities to reinforce communicative competence and oral language usage with a total of 154 Grade 9 learners at Sta. Anastacia- San Rafael National High School S.Y. 2020-2021 using the stratified random sampling. A researcher-made questionnaire was used to assess the student respondents' perceived communicative competence and oral language usage. On the other hand, respondents perceived themselves to be "advanced" in communicative competence, and strategic competence. The English language, on the other hand, is "often" used at home, on different platforms, and in the community. This demonstrated that the student respondents' communicative competence was significantly related to their use of oral language. In this regard, the study's findings revealed that speaking activities will strengthen students' communicative competence toward oral language used to ensure maximum participation and use of the target language shortly, where students can approach speaking as a way to negotiate to mean and establish social relations with others.

Keywords: Communicative competence, oral language usage, target language, discourse competence, sociolinguistic competence, strategic competence

About the presenter:

Rosel Bernadette A. Bautista is 28 years old from San Jose, Sto. Tomas City, Batangas. She is a graduate fellow of Master of Arts in English at San Pablo Colleges and a current English Teacher II at Sta. Anastacia-San Rafael National High School. She has been teaching Grade 9 students for five years. She taught English 7 for one year and Grade 9 for the remainder. She is also the School-Based Management Coordinator of the aforementioned school.



The Use of Grammatical and Mechanical Error Analysis Approach: Basis for a Writing Improvement Program for Student Journalists

Regine M. Oguan & Jasper M. del Valle

¹Doña Concepcion H. Umali Elementary School; ²San Pablo Colleges

ABSTRACT

This study aimed to develop a writing improvement program for student journalists in Doña Concepcion H. Umali Elementary School. It utilized a case study approach using errors analysis in English written tasks of the target participants. Written tasks were used as the main instrument in this study. A total of twelve (12) student journalists who were chosen purposively served as participants in this study. Results show that subject-verb agreement is the most committed error by the participants; second is the usage of a preposition; third most committed grammatical error refers to tenses; fourth is word order, and the last on the ranks among the grammatical errors committed by the participants involved pronouns. Capitalization ranked first among the three common mechanical errors identified in this study; second on the list is punctuation; and last rank is spelling. Based on these results, a writing improvement program for student journalists was developed. The study mainly focused on analyzing the errors committed by the participants through the use of Grammatical and Mechanical Error Analysis (GMEA) Approach which served as the basis for the development of a writing improvement program for student journalists. Through this study, root causes of participants' poor writing were analyzed. While through the study's output, student-journalists may develop reasonably good writing skills in English language

Keywords: error analysis, grammatical errors, mechanical errors, writing improvement program

About the presenter:

Regine M. Oguan is a former Contract of Service Instructor (2013-2017) at Southern Luzon State University-Tiaong Campus, where she handled General and Professional Education Subjects such as English, Mathematics, Assessment, and Methods of Teaching. She has also been a thesis adviser for BEEd Students in the said University for three years. Currently, she is a Teacher I at Doña Concepcion H. Umali Elementary School, District Research Coordinator for Elementary Level at Tiaong I District, and a Technical Assistance provider for research at the Department of Education - Division of Quezon. She is a Magna Cum Laude Graduate of Bachelor of Elementary Education at Southern Luzon State University-Tiaong Campus and Master of Arts in English Graduate at San Pablo Colleges.



Online Distance Learning Barriers and Their Implication in The Delivery of Instruction in The New Normal

Mark Paul O. Moraleja & Angele T. Pereja

Laguna State Polytechnic University

ABSTRACT

The Covid19 pandemic compels the country to adopt a more remote kind of learning without enough research to back it up. This resulted to unforeseen online learning barriers experienced by the students. This study investigated the relationship between online distance learning barriers and students' perception of the delivery of instructions in the new normal. Specifically, it identified the profile of the respondents in terms of age, sex, and family monthly income, the extent of online distance learning barriers in terms of individual, technological, domestic, institutional, and community, and the level of delivery of instruction in the new normal. This study is a descriptive correlational design that utilized a survey questionnaire to gather the profile of the respondents, the extent of online learning barriers they experience, and the level of perception of the delivery of instruction in the new normal of 172 high school students. After subjecting to chi-square and Pearson r, data revealed that of all the variables involved, only family monthly income was found to have a significant relationship to online learning barriers in terms of individual and technological. In addition, family monthly income was found to have a significant relationship with the level of delivery of instructions. Finally, a negative relationship between technological and institutional barriers with the level of delivery of instructions in the new normal was also found.

Keywords: Delivery of Instruction, Descriptive Correlational Study, Online Learning Barriers

About the presenter:

Mark Paul O. Moraleja is a graduate of Bachelor of Science in Psychology at Laguna State Polytechnic University in 2012. In 2017, he graduated on the same University with the degree of Master of Arts in Education major in Guidance and Counseling. He took the licensure examination for Psychometrician and passed it in 2016. After a year, he took the licensure examination for guidance and counseling and passed it too. Currently he is taking up Doctor of Philosophy in Psychology at Lyceum of the Philippines University, Batangas. At present he is working as permanent instructor on LSPU San Pablo teaching Experimental Psychology, Psychological Statistics, Field Methods and Methods of Research. He also taught in the graduate school of the same University teaching career guidance and principles of guidance for MaEd students major in guidance and counseling. During board exam season for Psychometrician, he is working as a part time lecturer at Spearhead Review Capitol.



Exploring the Online Students' Support during the Covid 19 Pandemic towards the Development of the 21st Century Life and Skills of LSPU Students

Alberto B. Castillo & Jherwin P. Hermosa

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

The study sought to determine the extent of the online student support and the 21st century life and skills development of the students. Descriptive and correlational study was employed using a self–made questionnaire with 60 respondents. Pearson correlation analysis was used to know the relationship of the two variables. It was found out that the online support in terms of retention services, student engagement and learning support are highly manifested while the 21st century life and skills in terms of leadership & responsibility, teamwork, adaptability and environment are moderately developed. This study is a first step to understand the online support in building of their 21st century life and skills. It may serve as a basis for each institution to review their existing strategies on online support. Sustainable institutionalized faculty program in the support of their students no matter the modality they might employ should be promoted. Further research about the student services and 21st century life and skills could be explore considering the possible balanced portfolio of online and face to face support align to the current status of the pandemic using other variables, wider respondents and qualitative method to validate or contradict the result.

Keywords: Online student support, 21st Century life and skills, Covid 19, Institutionalized faculty program

About the presenter:

Alberto B. Castillo is a licensed professional teacher, a graduate of Bachelor of Science in Industrial Technology major in Electrical, an associate professor 2 of the College of Industrial technology, former chairperson and director of the National Service Training Program (NSTP), former Chairperson of the Physical Plant and Site Development (PPSD) and the current chairperson of the Office of the Student Affairs and Services at Laguna State Polytechnic University in San Pablo City, Philippines. He earned a doctorate degree in educational management in 2021. His research interests include the student services, technology for teaching and learning, and science education.



Towards the Development of Lifelong Learning: An Assessment of the Collective Leadership Practices and Implementation of Student Support Services

Alberto B. Castillo

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

The study delved to ascertain the collective leadership practices and implementation of student support services using descriptive correlational design to describe the data, characteristics used and the population in the study. It was conducted at the Laguna State Polytechnic University by randomly selecting 792 students across four campuses. The findings showed that collective leadership are "practiced", the student support services are "implemented" and the lifelong learning competencies are "developed". The correlation of development of lifelong learning to the collective leadership is found "significant". Similarly. the test of correlation between the developed lifelong learning and the student support services are all found "significant". The regression analyses for collective leadership and the student support services "significantly" affect the lifelong learning competency. However, the test of difference on collective leadership and implementation of the student support services "does not differ significantly". There is "no significant difference" on the level of developed lifelong learning competencies. The hypothesis posited no significant relationship between the developed lifelong learning and the collective leadership practices and the Implementation of student support services is rejected. The hypothesis that the level of developed lifelong learning competencies does not significantly affect the Implementation of collective leadership practices is not sustained. Thus, the researcher recommends a review on the practice of collective leadership in the Implementation of student support services. Action plans with emphasis on students' lifelong learning competencies may be devised. Parallel research may be made in order to apply the collective leadership and student support services of the four campuses.

Keywords: Collective leadership; Lifelong learning; Student Services

About the presenter:

Alberto B. Castillo is a licensed professional teacher, a graduate of Bachelor of Science in Industrial Tecnology major in Electrical, an associate professor 2 of the College of Industrial technology, former chairperson and director of the National Service Training Program (NSTP), former Chairperson of the Physical Plant and Site Development (PPSD) and the current chairperson of the Office of the Student Affairs and Services at Laguna State Polytechnic University in San Pablo City, Philippines. He earned a doctorate degree in educational management in 2021. His research interests include the student services, technology for teaching and learning, and science education.



Online Teaching-Learning Modality in the Wake of Pandemic: Its Efficacy and Comfortability among Tertiary Educators

Paulina Quezon Quisido

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

This study aimed to analyze and determine the relationship between the person-related variables and the perceived level of efficacy and comfortability of the online teaching-learning modality. In the same manner, to determine as well the correlation of the online teaching-learning variables to the perceived level of efficacy and comfortability among those mentors at the tertiary level. Respondents of this study were one hundred sixteen (116), tertiary educators of the Laguna State Polytechnic University-San Pablo City Campus who were selected using convenience sampling due to the challenging situation. This study administered the descriptive correlational research design. Several statistical tools were utilized to present, analyze and interpret the gathered data. Frequency distribution, percentage, mean, standard deviation, and Spearman rho were used to find the relationship of the variables. Among the tertiary educator-respondents, related variables correlating to the perceived level of efficacy on the online teaching-learning modality have no significant relationship. To the same degree, the personrelated variables in terms of age, sex, civil status, and the number of years in teaching have no significant relationship to the perceived level of comfortability among the subject respondents. On the other hand, it is noteworthy that person-related variables in terms of the designation and educational attainment as correlating to the perceived level of comfortability on the online teaching-learning modality have a significant relationship. The online teaching-learning variables in terms of communication and interaction, learning content and resources, internet connectivity, technology competence and school support correlating to the perceived level of efficacy and comfortability in the online teaching-learning modality has a significant relationship. Generally, the subject respondents have high regard when it comes to the comfortability of the online teaching-learning modality.

Keywords: Comfortability, Efficacy, Online Teaching -Learning, Modality

About the presenter:

Dr. Paulina Quezon Quisido is an Associate Professor 2 and a graduate of Doctor of Philosophy in Education at Adamson University, Manila. She has been in the academe for 31 years in a capsule, from a private institution, then transferred to the government school. She has various competencies as a professor, consultant, lecturer, coach, researcher and Faculty Association president for two terms 2017-2021, at the Laguna State Polytechnic University, San Pablo City Campus. Dr. Quisido also educates another curriculum such as Foreign language (Nihongo), English subject and Professional courses under the umbrella of the Graduate Program. She has finished her bachelor's degree in Liberal Arts, majoring in English at San Pablo Colleges, Master's degree in School Administration and Supervision at Adamson University. Her first book entitled 'English For You! A Compendium Of Sample Tests In English For Civil Service Career Takers (CSC)" was written in 2019 with her co-author Dr. Cecilia Q. Velasco.



Status of Outreach Sports Program in Higher Education Institutions for Out of School Youth amidst Pandemic: Perspective to Effective Organized Sports

Darwin D. Ofrin

Laguna State Polytechnic University San Pablo City Campus

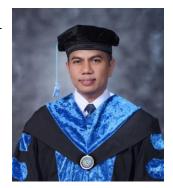
ABSTRACT

The study enquired to ascertain the status of outreach sports programs in higher education for out-of-school youth amidst pandemic. The study used the descriptive correlational design to describe the data, characteristics used, and the population in the study. It was conducted at the different State Universities and Colleges (SUCs) in Region 4A purposively selecting 120 Physical Education teachers. The person-related factors do not affect the out-of-school youth (OYS) program and youth development. The outreach sports program for OSY is implemented. The level of compliance with the minimum health and safety standards is to a 'great extent' while the level of effectiveness of the outreached sports program for OYS youth development is 'highly achieved.' The relationship between the compliance with the minimum health and safety standards of the outreach sports program for out-of-school youth and its effectiveness for OSY development are found significant. The results of the regression analyses on the Implementation of outreach sports program affecting the overall effectiveness of OSY development are also found significant. SUCs need to make a concerted effort to work more collaboratively with each other, empowering the coaches and trainers action plans with emphasis on OSY Program should be devised by the university.

Keywords: OSY Program; Life Skills; Youth Development; Health Standard; Sports

About the presenter:

Darwin D. Ofrin is an Associate Professor II and currently designated as University Sports Director at Laguna State Polytechnic University San Pablo Campus. He graduated his Doctorate Degree major in Educational Management at LSPU-San Pablo City Campus. He is currently teaching Electronics and PE subjects under the College of Industrial Education likewise handling subjects in the Master's Program, MAED major in Physical Education. He is also assigned as the Overall Coordinator of On-the-Job Training (OJT) in the Bachelor of Science in Industrial Technology Program. He renders expert services in thesis both in undergraduate and graduate studies as an adviser and subject specialist related to technology and Physical Education.



Instructional Technology Delivery Mode, Teaching Effectiveness, and Students' Satisfaction: Inputs to Industrial Technology Program Enhancement

Gary V. Delos Reyes

Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

The study determined the instructional delivery mode, teaching effectiveness, and student satisfaction in the industrial technology program using descriptive correlational design. It was conducted at the Laguna State Polytechnic University randomly selecting 550 students. The findings of the study showed that the profile of the respondents does not significantly moderate the relationship between the institutional delivery mode practices and their productivity. The level of instructional technology delivery mode practices is highly evident. The perceived level of teaching effectiveness is outstanding. The students' satisfaction in terms of quality of service provided and personnel attitude are all interpreted as 'excellent'. The test of correlation between the perceived instructional delivery mode and teaching effectiveness is found significantly related to the overall teaching effectiveness. Finally, the results of the regression analysis suggest that the attitude and overall instructional delivery model are factors that significantly affect the overall teaching effectiveness. The relationship between the institutional delivery mode and the teaching effectiveness and students' satisfaction is rejected. The profile does not significantly moderate the relationship between the variables under study. The institutional delivery mode singly is significantly related to the productivity of the respondents is rejected. The study suggests professional development to both administrators and teachers by examining the impact of situational factors on the efficacy of instructional delivery mode as well as empirically investigating and comparing the consequences of e-learning and digitized (online) mobile-learning on students' performance.

Keywords: Instructions, Satisfaction; Services; Effectiveness; Curriculum

About the presenter:

Gary V. delos Reyes is an Assistant Professor III and currently designated as Gender and Development Coordinator of CIT Dept. at Laguna State Polytechnic University San Pablo City Campus. He graduated his Doctorate Degree Major in Educational Management at LSPU-San Pablo City Campus. He is currently teaching GEC under College of Industrial Technology. He is also assigned as adviser and On-the-Job-Training (OJT) coordinator in the Bachelor of Science in Industrial Technology Program. He is an adviser and subject specialist related to technology.



Impact of Synchronous Class Attendance on the Academic Performance of Second-Year BS Industrial Technology Students

Percia V. Secreto & Eudora C. Tabo

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

Open and flexible learning has become the norm for schools and universities due to the pandemic, where students get lessons either through online classes or study modules. Acknowledging the difficulties in remote learning, many institutions allowed more flexibility by providing learners with increased choice and convenience to suit their learning conditions. One is making online class attendance less mandatory than during the pre-pandemic, wherein class attendance is strictly implemented. To a certain extent, this allowed students to study at their own time and pace and without sacrificing their work and home responsibilities. The study aims to determine the impact of attendance in online synchronous classes on the students' academic performance in one professional course at a state university in the Philippines. This study used a descriptive correlational method of research using quantitative analysis. The students' attendance in online classes was recorded, while their final grades served as the indicator of academic performance. Results of the study show that attendance in online classes positively impacts students' academic performance. Students who attend regularly synchronous online meetings tend to get a relatively higher final grade. The result showed a moderately positive relationship between these two factors using the Pearson correlation coefficient. Meanwhile, the availability of instructional support such as recorded lectures and supplementary materials prevented asynchronous students or those who cannot participate in online classes from failing the course. This study recommends that more active learning strategies and in-class group work be implemented to avoid non-essential absenteeism and promote and encourage lecture attendance.

Keywords: Online Learning, Synchronous Learning, Student's Attendance, Academic Performance

About the presenter:

Percia V. Secreto is currently a part-time college instructor at the College of Industrial Technology, Laguna State Polytechnic University teaching professional courses. Before joining LSPU, she was a former administrative staff at the Office of the University Registrar and Chief Administrative Officer at the Cash Office, University of the Philippines Open University (UPOU). She has been a subject matter expert and resource person in the development of various student-related information management systems at UPOU. Her areas of interest are learner support, distance education, and online enrollment. In recent years, she has presented papers at various international conferences in the areas of e-learning, gender equality, learner support system, student academic performance, and systems development and innovations. She completed a BS in Agribusiness Management at the University of the Philippines Los Baños.



Self-Regulation in a Self-Paced Learning Environment towards a more Engaged Engineering Students in One State University

Angela L. Reginaldo, Paul Enrico Puyo, Mario R. Briones & Delon A. Ching Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

The flexible learning implementation due to the educational shift brought by the COVID-19 pandemic conditioned learners to study by themselves. This study is focused on analyzing how established among engineering students is self-regulation in a self-paced learning environment and how it influences their engagement in learning online. This study is a descriptive and correlational research design participated by 23 Computer Engineering and 53 Electronic and Communication Engineering students using adopted research instruments. Based on the result of the study, it was depicted that the engineering students have established self-regulated learning in a self-paced learning environment when it comes to goal-setting, managing the physical environment, and effort regulation but with moderately established learning on help-seeking and applying self-study strategies. Moreover, whenever they are in synchronous and asynchronous learning mode, they ensure that they are engaged through mechanisms of peer collaboration and are moderately engaged when it comes to psychological motivation, cognitive problem-solving interaction with instructors, community support, and use of learning management. The statistical analysis found that there is a positive significant relationship between the establishment of self-regulated learning and the learning engagement of the engineering students in a self-paced learning environment. It is suggested in the study that when students are given the opportunity to work at their own pace, considering that there is an established environment where they can work appropriately as an individual learner, it can help them be more engaged in doing the task given to them by their teachers.

Keywords: Self-Regulated Learning, Self-Paced Learning Environment, Students Engagement, Online Learning

About the presenter:

Angela L. Reginaldo, 53, resides at Brgy. San Pedro, San Pablo City. She is happily married with two children and two grandchildren. Presently, she is the Director for Extension and Training Services of the Laguna State Polytechnic University. Has been in the teaching profession for 31 years (19 years in a private institution before transferring to LSPU), handling various mathematics and computer subjects. She finished BS Applied Mathematics, major in Operations Research at the University of the Philippines at Los Banos and Master of Arts in Education, with specialization in Administration and Supervision. She is an active member and incumbent Vice President for Tertiary Level of the Mathematics Teachers Association of the Philippines – San Pablo City Chapter, board member of the Mathematics Mentors of San Pablo City and Young Womens Christian Association (YWCA) of San Pablo City.



Social and Emotional Learning of Filipino Major Students

Marinella S. Alcantara, Lorie Ann B. Austria, Michelle B. Sarmiento & Delon A. Ching Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

In the implementation of the flexible learning modality in both public and private college institutions, students experience very limited social interactions with their teachers and classmates, which led to some issues in social and emotional learning observations. This study is focused on describing the social and emotional learning (SEL) of 100 randomly selected undergraduate students in Laguna State Polytechnic University enrolled in Bachelor of Secondary Education major in Filipino. The study employed a descriptive research design using a modified and adopted research instrument on SEL. As a result, the studentrespondents are always aware socially and frequently observe activities that led to social isolation, self-control, social anxiety, and relationship skills. It was found that there is no significant difference in the status of social and emotional learning when grouped according to age and sex, noting that regardless of age levels and regardless they are male or female they experience the same level of social and emotional learning. Moreover, 3rd-year students experience a greater level of social awareness compared to 2nd-year students, while those in the lower and middle levels of economic status have higher self-control than those in the upper level. Further, those students with scholarships experience a greater level of social awareness and relationship skills than no scholarship grants since they are more pressured to learn despite the uncertainties, they encounter to retain their scholarship status.

Keywords: Social Awareness, Social Isolation, Self-Control, Social Anxiety, Relationship Skills

About the presenter:

Lorie Ann B. Austria is a graduate of Bachelor of Secondary Education major in Filipino at Laguna State Polytechnic University, San Pablo City Campus. She is also taking Master of Education major in Filipino and have already earned 30 units. A license professional teacher. Currently, she is a Parttime Instructor of Laguna State Polytechnic University, San Pablo City Campus under the College of Teacher Education.



Teaching Effectiveness: A Design Feedback Process of One State University in the Philippines

John Vincent Aliazas, Allen Pasia & Jocelyn Madrideo

Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

Flexible learning is becoming an increasingly important component of curricula. Universities worldwide are becoming more concerned with ensuring that their students develop the skills required for success in the workplace. There has, however, been little theoretical development or empirical research on the effectiveness of teaching in flexible learning. Tenure and promotion decisions must consider teaching effectiveness, and instructors must have opportunities to advance their careers as teachers. As a result, this paper draws on educational research to determine student learning engagement as an influencing factor to teaching effectiveness following the CQA SF 012 criteria for assessing teaching effectiveness in flexible learning at a state university in the Philippines. The study included 281 teacher education students as respondents to the survey. Multiple regression analysis was used to identify significant predictors of teaching effectiveness. According to the findings, respondents were highly observed in all constructs of student learning engagement. Similarly, teaching techniques to engage and support all students, instructional and assessment practices, and the learning environment (CQA SF 012) was very effective. There was a weak to moderate relationship between student engagement and teaching effectiveness in flexible learning. Furthermore, active learning and a supportive learning environment were found to be positive indicators of teaching effectiveness. The study's findings could help strengthen the institution's commitment to high-quality education by improving departmental policies on faculty development and teaching evaluation.

Keywords: teaching effectiveness, student evaluation, flexible learning, teacher improvement

About the presenter:

Allen E. Pasia is the Chairperson for the Curriculum and Instruction Development unit, Coordinator for CTE GSAR Research and Statistics Center, and a Mathematics Instructor in the College of Teacher Education of Laguna State Polytechnic University, San Pablo City Campus. He teaches Mathematics, professional subjects, Statistics, and research in both the undergraduate and graduate teacher education program. He co-authored mathematics book series for elementary and Statistics and Probability for senior high school. He earned his Bachelor's and masters' degree in Laguna State Polytechnic University, and a candidate for Ph. D. in Mathematics Education in Philippine Normal University, Manila.



Teaching Efficacy Structures and Influencing Factors in Promoting Success and Retention among Pre-Service Teachers

John Vincent Aliazas, Anna Liza Del Rosario & Rose Andrade

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ABSTRACT

Student teachers require strong learning motivation to continue teaching during in-service training. One of the few personality factors that can accurately predict their practice and the students' results is teachers' self-confidence in their abilities to engage in activities that promote student learning. This study aimed to understand better pre-service teachers' perceptions of collective teaching efficacy (CTE) and influencing factors to their performance. The study includes 301 graduating pre-service teachers at a state university in Laguna. Multiple regression analysis was used to identify significant predictors of pre-service teachers' performance. Findings revealed that collective teaching efficacy was highly observed among pre-service teachers. Likewise, influencing factors of teaching efficacy among pre-service teachers were highly manifested. In-service teaching performance among the respondents was deemed outstanding. There is a weak to moderate correlation between CTE, influence factors, and pre-service teachers' performance. Furthermore, the construct of CTE (vicarious experience) and influence factors (knowledge, perceived personality factors, and resource provision) were significant predictors of pre-service teachers' performance. The result of the study may serve as an input for future initiatives in a pre-service teacher development training program.

Keywords: collective teaching efficacy, influencing factors, pre-service teachers, internship

About the presenter:

Rose R. Andrade is a professor for the undergraduate and graduate teacher education programs at Laguna State Polytechnic University. She obtained her Master of Arts in Mathematics Education at Philippine Normal University-Manila. She is a lecturer in Licensure Examination for Teachers under St. Louis Review Center. She has published research articles on mathematical engagement, collaborative approach, problem-solving, online learning, mathematical pedagogies, and mathematical creativity in refereed journals, ASEAN Citation Indexed (ACI), and Scopus-indexed journals. Currently, she is in the Research Implementing Unit of College Teacher of Education at the same university.



Strategic Performance Management System and Faculty Performance of the Laguna State Polytechnic University-San Pablo City Campus

Ma. Rona D. Sahagun, Perlas Janice C. Sandoval, Aleli Lorna A. Daquil, & Marierose P. Valenzuela

Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

The study investigated the effect of strategic performance management system (SPMS) characteristics on faculty performance through a descriptive correlation survey research design. The study specifically examined the three strategic performance measurement approaches with the effectiveness of SPMSs: the use of multidimensional performance measures, the use of performance measures linked to value drivers, and the use of performance measures linked to strategy using a descriptive correlation survey research design to assess the significant relationship between the perceived effectiveness of the SPMS and the use of performance measures linked to strategy, including the Civil Service Commission (CSC) provision. Thus, a purposive sampling technique was used to categorize the respondents. They believed that the strategic performance management system is very satisfactory in terms of system performance and reward philosophy, positive behavior that drives effective performance, strategic objectives, and CSC provision; and faculty performance in terms of planning and commitment, monitoring and coaching, review and evaluation, and rewards and development plan were all very satisfactory. As a result, the respondents' profile has no significant correlation to faculty performance. However, the strategic performance management system is critical to faculty performance using the Pearson Product-Moment Correlation Coefficient. Additionally, the CSC provision significantly influences faculty performance through multiple regression analysis.

Keywords: faculty performance, policy, rewards philosophy, strategic objectives, and strategic performance management systems

About the presenter:

Dr. Ma. Rona D. Sahagun is an Assistant Professor IV at the Laguna State Polytechnic University-San Pablo City Campus. She is currently a regular faculty member of the College of Business Administration and Accountancy as well as an affiliate faculty member of the institution's Graduate Studies and Applied Research. Dr. Sahagun's research interests include educational management and research-related topics. She took part in local, national, and international forums, and her dissertation, "Research Awareness and Culture Among Faculty: Input to Productivity in Laguna State Polytechnic University." was published in 2019. She graduated from Laguna State Polytechnic University-San Pablo City Campus with a Doctor of Education majoring in Educational Management and a Master's degree in Teaching English. She received her Bachelor of Commerce with a major in Business Administration from the University of Sto. Tomas.



Attitude toward Communicative Language Teaching and the Oral Proficiency of Students in the Graduate Program

Cecilia B. Diva, Chester Derequito, Michelle Sarmiento, Alelie Lorna Daquil, Rose R. Andrade & Delon A. Ching

Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

Speaking is considered more difficult than writing and reading in the usage of the foreign language, English. Based on observation, it is also evident among students at the master's level, that there are still some who lack competence in oral language. Students at a graduate school studying English were exposed to Communicative Language Teaching (CLT) and tested this out to see whether it helped them improve their oral proficiency. A descriptiveexperimental study was conducted with 31 graduate students majoring in English, the majority of whom are female, single, and have taught in a public school for less than 10 years. As depicted in the result, student-respondents observed well the processes undertaken in communicative language teaching posting a good attitude towards the role and contribution of learners, error correction and assessment, role and importance of grammar, teachers' role, the role of the learner's native language and role of group/pair work. After being exposed to CLT, most of them exceed the expectations on oral proficiency tasks given to them. Lastly, a positive significant relationship was revealed between the attitude towards CLT and the level of oral proficiencies implying when students have an observable good attitude towards the process of CLT particularly the role and importance of grammar and role of group/pair work. it can help them obtain better levels of oral proficiencies.

Keywords: Communicative Language Teaching, Language Competence, Oral Proficiencies, Native Language, Foreign Language

About the presenter:

Chester M. Derequito is a faculty of language and literature under the College of Teacher Education of Laguna State Polytechnic University. He teaches linguistic-related and language pedagogy courses in the undergraduate program, and creative writing and literary criticism in the graduate program. He serves as a field expert to students majoring in English, and has been delivering trainings and lectures in the areas of Language Education, Teaching of Literature, Creative Writing, and Language and Literary Research. His research interests focus on Language Education and Literary Criticism. He holds a Master's degree in Education with specialization in English, and is pursuing his degree in Doctor of Philosophy in Education in the same discipline.



Sports Performance Strategies for Better Athletic Performance among Students in the Master's Level

Roger A. Gimpaya, Darwin Ofrin, Jherwin Hermosa, Delon A. Ching, Allen E. Pasia, & Elaine Francisco

Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

Acquiring the necessary skills to be a sports coach is developed at the Master's level for physical education, but educators should also have basic skills on how to perform effectively in sports competitions. The study determined whether the teaching initiative on sports performance strategies will help students in the Master's program who are commonly in the age bracket of 30 years old and below, single, and in the teaching job for about 10 years and below as a Teacher I, achieve better athletic performances. The descriptive-experimental research design was used having an adapted guestionnaire to describe the strategy and a performance task graded by a rubric were the instruments to satisfy the parameters under study. It is reflected in the results that during performance tasks in sports, it is highly observed among students that they do self-talk and imagery and are observed to work on emotional control, automaticity, goal-setting, activation, and relaxation. Students having in place the sports performance strategies were able to fully meet expectations on athletic performances as assessed by the teacher. Further, a positive significant relationship was depicted between the use of sports performance strategies and level of athletic performance implying the observable actions on goal setting, activation, and attention control helps attain better athletic performances.

Keywords: Sports Performance Strategies, Self-Talk, Imagery, Athletic Performance

About the presenter:

Roger A Gimpaya is a graduate of Master of Arts in Education specialized in Physical Education. He received a certificate of completed academic requirement in his PhD in Educational Management, and currently enrolled in his dissertation writing at the University of Batangas. An instructor of Physical Education in LSPU San Pablo City Campus under the college of teacher education and appointed as coordinator of the BPED program. In addition to his work, he established an organization and served as an advisor to the students who make up the organization. He advocates to help students develop their talents and skills in the field of arts, sports, and to raise the level of students' awareness in their chosen course. He wanted to share with the students the knowledge that will help them in fulfilling their dreams.



Strategic Thinking Strategy toward Higher Critical Analysis of Students in the Graduate Program

Jherwin Hermosa, Lucila Palacio, Rona Christina M. Almazan, Maria Cristian Palacio, Delon A. Ching & Allen E. Pasia

Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

Although there are initiatives in place to help students in the Graduate program improve their news literacy and critical thinking skills, it is still vital to help students develop strategies for understanding what they read with a deeper sense of analysis. This study used a descriptiveexperimental research method to see if the strategic thinking strategy may help students in a State University Master's degree achieve higher levels of critical analysis. The study included 24 Graduate Studies and Applied Research students, the majority of them were under 30 years old, single, and had worked as Teacher I for 1-10 years. Instruments included an adapted questionnaire to describe the strategy and a critical analysis test with rubric assessment. Based on the results, students used the sys thinking strategy to a great extent, reframing to a moderate extent, and reflecting to a great extent in studying the cases in the teacher's activities. It was also shown that after being exposed to strategic thinking strategies, students were able to achieve proficient to advanced levels of critical analysis. Finally, a significant positive relationship was found between the use of the reflecting strategic thinking strategy and the level of critical analysis, implying that when students reflect extensively on the issues presented in a case, they will be better able to understand the problem and obtain an advanced level of critical analysis.

Keywords: Strategic Thinking, Sys Thinking, Reframing, Reflecting Critical Analysis

About the presenter:

Rona Christina M. Almazan is a licensed professional teacher, an Instructor I of social science education in the College of Teacher Education, and the college unit head of the Gender and Development of CTE at Laguna State Polytechnic University in San Pablo City, Philippines. She earned a Master of Arts degree in Social Science in 2019.



Creating a Conducive School Climate for Improved Teacher's Performance and Satisfaction in Public Elementary Schools

Luningning Maderazo & Delon Ching

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ABSTRACT

The quantity and quality of connections among teachers and students, students' and teachers' perceptions of the school setting, school personal qualities, environmental exposures of safety, school size, academic performance, and a sense of trust and respect for all are all factors that can influence the climate. The researcher used a descriptive and correlational study approach to examine the association between school climate and teacher performance and satisfaction. The data revealed that school climate in terms of relationship engagement, diversity respect, and school participation are observed in school, leading to the development of healthy and positive relationships among learners, teachers, and families, as well as strong links between schools and the greater community. As far as the safety of the school climate, it has been observed in the school in terms of emotional security, physical safety, and substance use, all of which are considered to safeguard people's lives, wellbeing, and physical integrity to avoid risks and conditions that cause physical, psychological, or material harm. The teacher respondents' perceptions of the school climate in terms of the physical, academic, and disciplinary environments were observed within the school. The statistics revealed that teachers' work performance and satisfaction were rated very satisfactorily. This means that the teachers are satisfied with the results of their intentions, expectations, and desires. The findings indicated that school climate and teacher performance had a significant relationship. Finally, the findings demonstrated a strong positive link between school climate and teacher satisfaction.

Keywords: School Climate, Teachers Performance, Teachers Satisfaction

Teachers' Leadership Competencies and Communication Behavior towards Better Academic Performance and Engagement of Grade 2 Pupils

Rebecca Alicando & Delon Ching

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

Teacher-leaders aims to improve students' performances by continuing to teach students and influencing others inside and outside their schools. The study intended to determine the teacher leadership competencies and communication behavior towards better academic performance and engagement of Grade 2 learners in Santa Catalina Elementary School, Division of Quezon. The study showed that the teachers are competent in fostering a collaborative culture, facilitating improvement and establishing standards, and modeling leadership attributes and skills. Teachers' communication behavior in terms of challenging, encouragement and praise, on-verbal support, understanding and friendly, and controlling was observed. On the proficiency level of the respondents in terms of a written task, 40.9 % belong to the outstanding group, and only 1.1% belong to the fairly satisfactory. On the proficiency level of the respondents in terms of performance task, 55.7 % belongs to very satisfactory, and only 1.1 % belongs to fairly satisfactory. The respondents were engaged in academic, behavioral, cognitive, and affective engagement. The study revealed that leadership competencies such as fostering a collaborative culture, facilitating improvement and establishing standards, and modeling leadership attributes and skills have no significant relationship to the learner's performance, such as written and performance tasks. On the other hand, leadership competency in fostering a collaborative culture, facilitating improvement and establishing standards, and modeling leadership attributes and skills are significantly related to academic cognitive and affective engagement. The study revealed that communication behavior has no significant relationship to performance but is significantly related to academic, behavioral, cognitive, and affective engagement.

Keywords: teachers' leadership competencies, communication behavior, academic performance, academic engagement

Flipped Classroom Practices in Improving the Economic Skills and Social Learning of Grade 9 Students

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¹Sta. Anastacia-San Rafael National High School; ²Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

The study was conducted to identify the significant relationship on utilizing flipped classroom practices in improving the economic skills and social learning. The study used a descriptivequantitative type of research design wherein the information was gathered about the variables without changing the environment. It was conducted in Sta. Anastacia-San Rafael National High School utilizing flipped classroom practices for grade 9 high school students wherein 108 respondents were chosen to participate in the study using cluster sampling. A self-made instrument was formulated to gather the responses of the participants. Based on the findings. it was assessed that most of the respondents were 14 years old female and utilizes mobile phone for online learning and connects to online class using Wi-Fi. Consequently, the mode of flipped classroom practices provided for the grade 9 students in Araling Panlipunan in terms of synchronous teacher-aided and self-paced asynchronous revealed the same result as assessed by the respondents, the teachers were able to always perform their tasks. The research gap of the review include difficulty to propel students, issues with effective time management, homeroom board issues, and not having the option to guarantee the inclusion of students in exercises. Similarly, students prefer to avoid group exercises and there is no prompt revision of students' mistakes and errors.

Keywords: flipped learning, connectivity, economic skills, social learning

About the presenter:

Divina M. Hidalgo graduated college degree in Laguna State Polytechnic University-San Pablo City Campus as well as the Masters' degree program. She is currently teaching Araling Panlipunan at Sta. Anastacia-San Rafael National High School in Sto. Tomas Batangas. She has been teaching for about 8 years, 5 years in private school and 3 years in the public school. She is selfmotivated, and disciplined. She always keen to up-skill herself by learning new things whenever she gets a chance.



Parental Involvement in Modular Distance Learning and the Numeracy Skills of Grade 7 Students in the New Normal

¹Rica Gloria T. Lara & ²Allen Pasia

¹Lumangbayan Integrated National High School; ²Laguna State Polytechnic University

ABSTRACT

This paper is a descriptive correlational research that aimed to determine whether the parental involvement in modular distance learning significantly associate with the numeracy skills of students in the new normal. The respondents of the study were randomly selected Grade 7 students from a public secondary school in San Juan Batangas. The following statistical tools were employed to treat the data gathered; frequency, weighted means, standard deviation and Pearson correlation. Data gathered revealed that the skills in reading and recognizing numbers, ordering and comparing numbers, and performing operations of numbers have a percentage greater than 75% or the mastery level. On the other hand, the problem solving and number sense, and analyzing patterns and graphs and handling data have over-all percentage lower than the mastery level. The respondents perceived that the continuum involvement such as parent demographics, school policies, students' needs and students' perceptions has a great impact on the modular distance learning. This study also revealed that the respondents 'agreed' that the parents should be an organizer, motivator, instructor and manager so that the learning in modular distance modality reach its purpose in addressing learning despite the pandemic. Generally, there were weak correlations between the parental involvement and the numeracy skills of the students.

Keywords: parental involvement, numeracy skills, modular distance learning, new normal

About the presenter:

Rica Gloria T Lara is a public school teacher at Lumangbayan Integrated National High School at San Juan Batangas She has 9 years of teaching experience.



Services Offered by Admission and Registration Office: An Evaluation

Raquel Metran Ballares

Al Shomoukh International School

ABSTRACT

The admissions and registration procedures creates a big impact to the sustainability of the educational procedures. The department that handles all the activities of admission and registration is called Centre for Admission and Registration (CAR). Using the core concept of performance theory of John Ivancebich (2001) which states that opportunity, capability and motivation determines performance, wherein individual performance extremely affects the organizational performance as a whole. The study sought to know the level of performance of the admission and registration in terms of services offered in general in the perspective of staff and students. The study found out that age, gender, education, and job tenure effects the performance level both in supervisory and non-supervisory position. The probability value (P Value) is 42.4% which means that there is a significant difference of performance of the staff from Center for Admission and Registration from Gulf College based on the perspective of students and staff. The P value is greater than 0.05 degree of confidence, therefore the hypothesis is not accepted. Thus, there is a need for improvement in the level of performance of the college admission and registration to satisfy and make the students happy as the main clients. There are nine specific suggested actions that the centre can implement: set realistic enrollment goals-not projections; develop an annual marketing and recruitment plan as well as a three-to-five-year strategic enrollment and revenue plan; devote as much attention to student retention as to recruitment; build recruitment database and inquiry pool by design, not by chance; track marketing and recruitment activities; gualify and grade prospective students precisely; implement a strategic communications flow; award financial aid so students get what they need and expect to enroll.

Keywords: Admission; Admission and Registration Performance; Systematic Enrollment Procedures; Efficiency in Data Input & Output

About the presenter:

Ms Raquel M. Ballares is a professional ICT (Information and Communication Technology) teacher, and a CELTA (Certificate in English Language Teaching to Adults) certified teacher from Cambridge Assessment English, United Kingdom. She is a graduate of Master of Arts in Education, major in Educational Management, also presently pursuing the Doctor of Philosophy in Educational Management and Leadership. She was the former Faculty Administrator of the Faculty of Foundation Studies at Gulf College, Muscat Oman. She worked at the college for almost seven years, assisted the Head of Department in the overall management of the faculty. Due to Omanization, she transferred to a new academic institution. Presently, she is now connected at the Al Shomoukh International School, working as the Database Manager and International Examination Officer.



Level of Interest and Travelogue as Supplementary Learning Tool towards Historical Thinking Skills of Students in Araling Panlipunan

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¹San Vicente Integrated High School; ²Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

The study utilized experimental-developmental quantitative research design through the use of teacher-made and expert-validated survey questionnaire, pretest and posttest to find the effects of self-designed travelogue as a supplementary learning tool in improving the historical thinking skills of 50 Grade 7 students in a public high school in San Pablo City. Results showed that as to the learners' attitude toward learning styles, visual, auditory, and kinesthetic modalities sometimes apply to the respondents. As to the level of interest, the student respondents were generally interested in the topics for Araling Panlipunan 7. Scores of the respondents as to historical thinking skills were generally also shifted from the satisfactory, very satisfactory ranges to the outstanding range. This is true for sourcing, corroborating, contextualizing, close reading and explicit instruction. Statistical tests for relationships and differences also reflected significant difference on the historical thinking skills of the learners implying that the use of travelogue has improved the skills of the learners and only visual related to explicit instruction and auditory to corroborating. This concludes that the attitudes of the learners toward learning styles partially relate to some of the historical thinking skills.

Keywords: Level of Interest, Travelogue, Historical Thinking Skills

About the presenter:

Mark Ed M. Reyes is a graduate of Bachelor of Arts in Sociology at the University of the Philippines, Los Baños, Laguna and currently taking up Masters of Arts in Education Major in Social Sciences at the Laguna State Polytechnic University, San Pablo City Campus. He is currently affiliated in the Department of Education, Schools Division of San Pablo City and is currently teaching Araling Panlipunan/Social Studies in San Vicente Integrated High School.



The Effectiveness of Peer Discussion in Teaching Physics at the High School Level

¹Padauk Win & ²Nway Pyae Pyae

¹Former lecturer at Sagaing University of Education; ²Former Senior Teacher, Basic Education High School

ABSTRACT

The purpose of this research is to investigate the effectiveness of peer discussion in teaching physics at the high school level. This study was conducted quantitatively using quasiexperimental design to compare the physics achievements between students who received peer discussion and those who did not. The subjects of the study were 189 Grade Nine students from Basic Education High School, Myitkyina and Basic Education High School, Myitkyina from Kachin State in 2017-2018 Academic Year. The students in the experimental aroups were taught by using peer discussion while those in the control groups were taught by using conventional methods of teaching. After four-week treatment period, a posttest was administered to both groups in each school. Independent samples t-test was analyzed whether there were differences between two groups. According to t values (t (110) = 19.24, p<.001) at Basic Education High School, Myitkyina and (t (75) = 9.26, p<.001) at Basic Education High School, Myitkyina, the students who received a treatment by using peer discussion method demonstrated significantly better than those who received a treatment by using conventional methods of teaching. Therefore, research findings proved that peer discussion method has a positive contribution to physics teaching and learning at the high school level.

Keywords: Effectiveness, Peer Discussion, Physics, Teaching

About the presenter:

Padauk Win has PhD degree at Yangon University of Education. She conducted research for MEd and PhD Degrees. She is a former lecturer at the Methodology Department of Sagaing University of Education with 15 years of teaching experience. Moreover, she handles teaching methods and research for prospective and in-service teachers. She got a certificate for a regional training course for teachers to introduce nuclear sciences in secondary schools through innovative approaches in Argonne, IL, United States of America. She contributes the knowledge of education and research in line with international level. She shared experiences of research to Research Journals for Central Institute of Civil Service, Sagaing University of Education and International Journal of Educational Management and Development Studies. She also supervised research for Bachelor students, Master students and students for PhD degree.



Problem-based Infographic Material for Advancing Scientific Knowledge of Grade 7 Modular Distance Learners

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ABSTRACT

The study utilized descriptive-developmental research design through the use of integrated, adapted, and expert-validated survey questionnaires, pretest and posttest to find the effects of self-designed problem-based infographic material as supplementary learning tool in advancing the scientific knowledge of 30 Grade 7 students in a public high school in San Pablo City. Modular distance learning related factors and the preferred multimedia resources of the respondents were obtained. Results showed that the problem-based learning stages problem comprehension, curriculum exploring, and problem solving - and the infographic design elements - visual, content, and knowledge elements - were highly integrated in the developed infographic material. As to the overall acceptability of the problem-based infographic material - intellectual, life skills, and affective development - were perceived to be acceptable by the students. Scores of the respondents as to the scientific knowledge – content knowledge, procedural knowledge, and epistemic knowledge - were found to have increased after utilizing the material. Statistical tests for difference also reflected significantly on the scientific knowledge of the learners implying that the use of problem-based infographic material has improved the skills of the learners while no significant relationship to the intellectual, life skills, and affective development. This concludes that the acceptability of the problem-based infographic material partially affects the scientific knowledge of the students.

Keywords: Problem-based learning, Infographic, Scientific knowledge, Modular distance learning

About the presenter:

Fatima M. Aguilar is a Public Secondary Junior High School Teacher II currently affiliated at San Vicente Integrated High School teaching Grade 7 Science. Further, she is also the Guidance Coordinator and the Red Cross Youth Coordinator of the said institution. She earned her Bachelor in Secondary Education Major in Biological Science at Laguna State Polytechnic University – San Pablo City Campus, Laguna, Philippines. She is pursuing her Master of Arts in Education Major in Science and Technology in the same campus.Part of her achievements in the field of research is her participation as Pecha Kucha presenter with research entitled "CALENDICTIONARY: Its Effect in Enhancing Students' Attitude Towards Science Vocabulary" in the 2019 Conference of Basic Education Researchers (CBER 2019) held last October 29-30, 2019 at the Philippine International Convention Center (PICC), Pasay City, Manila, Philippines.



Gender-Responsive Principles Awareness and Factors Influencing Track Preferences toward Life Skills of Senior High School

¹Roselle O. Becina & ²Zenaida M. Cuenca

¹San Bartolome Integrated High School; ²Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

This study sought to find the relationship between gender-responsive principles awareness and factors affecting track preference to the life skills of 144 randomly chosen Senior High School students from public secondary schools in San Pablo City using the correlational research design. Their perception was also described using a survey questionnaire. Results showed that the respondents generally agree with the indicators for gender-responsive principle awareness in terms of gender equality, gender equity, gender sensitivity, and nondiscrimination. For factors affecting track preference, they agree with the indicators for personal interests, affordability, and employability but have taken a neutral perception of parents' influence. They also agree on the indicators for decision-making and problemsolving, creative thinking and critical thinking, communication and interpersonal skills, selfawareness and empathy, and coping with emotions and stress for life skills. Significant relationships implying that there is a developed sense of gender-responsiveness principle and life skills among the student respondents were also noted. The same can be said for the perception of the students' track preferences except for parents' influences' relationship to communication and interpersonal skills and self-awareness and empathy which were found to be insignificant. Therefore, students still need to develop their communication and interpersonal skills and self – awareness, and empathy.

Keywords: Gender-Principles, Senior High School, Track Preferences, Life Skills

About the presenter:

Roselle O. Becina is currently teaching at San Bartolome Integrated High School- DepEd San Pablo Position: Teacher II. She finished Bachelor of Science in Industrial Education and Master of Arts in Education -Major in Technology in Home Economics *at* Laguna State Polytechnic University-SPCC. She passed the Licensure Examination for Teacher Passer in 2016. She has National Certification II- Bread & Pastry Production, National Certification II- Food and Beverages Service and National Certification II- Household Service.



Humanities and Social Sciences Track

The Use and Effects of Smartphones in Students' Learning Activities

Eric S. Parilla & Marc Edward M. Abadilla Northwestern University

ABSTRACT

The study investigates the use and effects of smartphones in online education. The study participants were the students of the seven major universities and colleges in llocos Norte, and they were chosen using a convenience sampling technique. The study used a quantitative research method and a descriptive research approach to measure the use and effects of smartphones in business students' learning activities. Using frequencies and weighted mean, it was found that students use smartphones because they are flexible and convenient. The main advantage of using cell phones is the email capability. Though it is advantageous, there are also some detriments such as expensive and students cannot avoid distractions. Implications, conclusions, and recommendations were also provided in the study.

Keywords: Online education, smartphones, mobile education, learning activities

About the presenter:

Dr. Eric S. Parilla is currently the Vice President for the Research and Community Extension of the University and the Dean of the College of Business Education. He obtained his Master of Science in Management at the University of Asia and the Pacific and his Doctor of Business Administration at the University of Northern Philippines last 2010. Currently, he is taking up his second master's, Master of Management major in Data Analytics at the Philippines Christian University. He took his specialization course, Diploma in Operations Management online at Rutgers University.

He loves doing research and had produced, presented and published numerous researches at different conferences and journals, here and abroad. He is also a seasoned peer reviewer and member of the editorial board of various international and local journals. He is also a consultant of different businesses primarily doing feasibility studies and business plans. Currently, he is the Vice President for Luzon for the Philippine Association of Collegiate Schools in Business and the President for the Philippine Council of Deans and Educators in Business-Northern Luzon Chapter.



The Existence of the Rule of Law Depicted In Editorial Cartoons in Sri Lanka

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Department of Public Policy, Faculty of Humanities and Social Sciences, University of Ruhuna, Sri Lanka

ABSTRACT

The Rule of Law is one of the essential elements in democratic governance. However, in Sri Lanka, the rule of law has been subject to criticism from time to time due to political interference. In this context, this paper attempts to understand how editorial cartoonists depict the existence of the rule of law in the Sri Lankan context since editorial cartoons are an influential mode of critique. This study used critical content analysis of editorial cartoons to examine how cartoonists depict current discourse related to political interference to the rule of law in Sri Lanka. Editorial cartoons from mainstream news sources in Sinhala and English are used as primary sources in the study to critically analyze editorial cartoonists' perspectives on political influence on institutions that uphold the rule of law. Here selected political cartoons are analyzed under symbolism, labeling, exaggeration, analogy, and irony to examine different depictions of the rule of law by Sri Lankan cartoonists. Symbols of the rule of law are often used and, mainly, politicians are depicted as controllers of the institutes that are responsible for maintaining law and order. And also here cartoonists symbolized that politicians are used these institutions according to their will. Satiric caricatures have been used to raise the voice against increasing political interference, and cartoonists play an important role as representatives of their respective societies. However, this study was conducted based on the Sinhala and English newspapers, and this may have led to missed perspectives from the Tamil editorial cartoonists.

Keywords: Rule of Law, political interference, editorial cartoonist, symbols

About the presenter:

Ashawarie Karunanayake is a graduate of the University of Colombo, Sri Lanka with a first-class honors degree in Political Science and Public Policy. She has completed her Master of Arts in Political Science at the University of Peradeniya, Sri Lanka. Currently, she works as a Lecturer at Department of Public Policy, Faculty of Humanities and Social Sciences, University of Ruhuna, Sri Lanka. As a researcher, her interests range from political communication, gender studies, and human rights, to multiculturalism.



Indigenous Beliefs, Knowledge and Practices on Fishing and Climate Change Adaptation: A Case Study amongst Fishers in San Sebastian, Lagonoy, Camarines Sur

Manny S. Israel & Sean A. Sierra Partido State University – San Jose Campus

ABSTRACT

San Sebastian, one of the four fishing villages in the Eastern part of the Municipality of Lagonoy, stays susceptible and at threat from weather-related disasters. Altering the fishery systems in Lagonov Gulf (Pacific) where local artisanal and subsistence fishers are totally structured for their economic enterprise, require sustainable climate change adaptation measures. In achieving this end the present study explored the indigenous fisheries practices of fishers, in phrases of a) production, b) process, c) marketing, and d) management plan; determined adaptive strategies towards perceived influence of climate change in the habits of fishing activities; and, assessed the knowledge and awareness of climate change adaptation amongst fishers and local officials. The qualitative methodology supplied the main instrument for this study. For the statistics presentation on adaptive techniques, and knowledge and awareness on CC quantitative methodology have been considered. A whole of 25 experts participated in the FGD and KII. The manual coding of information frequency used to be carried out via the researchers by way of indicating the wide variety of text that the respondents made that specific statement. For the analysis, solely eight most recorded modifications have been considered. Finally, informants expressed pastime and aid to any local weather alternate initiative, and believed they are prepared to put up bayanihan efforts (a spirit of communal cooperation) to help hold the environment. On the contrary, informants expressed claims of unfair treatment of local fishers when authorities failed to take action towards transient fish poachers who overfish and fished destructively

Keywords: Climate Change, Fishing Practices, Indigenous Knowledge, KAP

About the presenter:

Manny S. Israel is a graduate of Master of Arts in Education major in Administration and Supervision at Partido College, Goa, Camarines Sur and Bachelor of Science in Education major in Social Sciences at the Philippine Normal University, Manila. At present, he is an associate professor at Partido State University – San Jose Campus and is niching on researches related to community development and disaster risk reduction management.



A Modified Social Amplification of Risk Framework towards Risk Communication Management for Flood-risk Reduction

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ABSTRACT

Extensive literature on disaster studies has examined risk communication and disaster risk management as separate concerns which emphasize the significant role of risk communication and management at the level of the communities to enhance community preparedness and reduce the risks triggered by disasters like flooding. However, no literature has been found specifically in the area of risk communication management. This study, therefore, aimed to focus on this gap in the literature which integrates risk communication with disaster risk management towards a more integrative approach to risk reduction. Using a convergent parallel mixed method design, this study was conducted utilizing both the qualitative and quantitative approaches in the data collection and analysis guided by the integrated frameworks of the disaster risk management and the social amplification of risk (SARF). The merging of both results in the analysis and interpretation helped identify the convergence or divergence of the findings. Results of the study revealed that the risk reduction strategies can be further enhanced through a risk communication management using a localized and participatory approach in the proper knowledge transfer of flood risk communication among the stakeholders involved, placing the community as the central actor for amplification. Thus, the study proposed a community-based flood-risk communication management (CBFRCM) framework and a Flood Risk Amplification Communication Theory (FRACT). The study recommends the application of the proposed theory to test the operationalization of the modification of SARF as well as its appropriateness to the context of flood vulnerabilities of communities.

Keywords: flooding; flood-risk amplification communication theory; risk communication management; risk communication; strategic risk communication; risk reduction

About the presenter:

Dr. Karen Joyce G. Cayamanda is an Associate Professor in Communication from the University of the Philippines Mindanao, with a 25-year teaching experience and an 18-year experience as faculty administrator in different positions. She is a graduate of UPLB (BA Comm Arts, 1993; MA Comm Arts, 2000 and PhD Development Studies, 2019). Her study titled "Risk Communication Management for flood vulnerable communities of Davao City. Southern Philippines, with a Best Dissertation award, has been presented in various international conferences and have been awarded Best Paper presentation in three international conferences. She is a grantee of the PhD graduate studies scholarship under the Commission on Higher Education (CHED) and a PhD research scholarship recipient under the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) and a PhD fellow of the Doctoral Studies Program of the University of the Philippines. She is a Peer Reviewer, Book Editor and Author in peer-reviewed international journals and active in Conferences, both national and international, as paper presenter, discussant, session chair and member of the organizing committee.



Resource and Hazard Analysis of Selected Farmland Communities along Bicol River

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ABSTRACT

This study provides information on resource and hazard map in selected farmland communities along Bicol River Basin specifically, identify and map-out the agri-fishery resources, climate-related hazard areas, agricultural infrastructures, landmarks and other relevant resources, determine the climate adaptation practices and strategies of agriculture and livestock in the community and propose a farm emergency plan intended for agricultural and livestock goods to minimize economic losses. Resource and Hazard Mapping was used as a tool in the Participatory Rural Appraisal (PRA). Six communities from representative project beneficiaries from the Department of Agriculture Project Funded were identified as target participants. Results of PRA revealed that the majority of the land resources in the above-mentioned barangays are being utilized in rice, high-value crop and corn farming while fishing, livestock, and poultry are considered other livelihood sources. Their geographical advantage is also their agricultural weakness, as much of their farmland is prone to flooding during the wet season and drought during the dry season. Most farmers employ adaptation strategies such as early maturing, submergence tolerance, and salinity tolerance, as well as seeking another potential source of income. The resource and hazard map not just depicts various aspects related to agriculture, it is also a useful tool to the enhanced resilience from natural hazards and disasters.

Keywords: Resource and Hazard Map, Participatory Rural Appraisal (PRA), Rice Farming, Farming, Bicol River, Bicol River Basin

About the presenter:

Jessica Dionne R. Nunag is an academic instructor in the Tourism Management Department of Partido State University-San Jose Campus. She teaches Tourism Marketing, Events Management, Strategic Management, Sustainable Tourism and other tourism core subjects. As part of her professional development, she is taking her Doctorate in Tourism and Hospitality Management at the De La Salle- College of St. Benilde. She has presented findings of her scientific works in numerous local, national and international conferences. Her research focus is multidisciplinary; with focus on tourism planning, management and promotion, sustainable tourism, community-based tourism and tourism applications addressing societal and environmental issues.



Effect of Expressive Writing on the Health Conditions of College Students

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ABSTRACT

The study aimed to determine the effect of expressive writing on the psychological and physical conditions of the college students. Expressive writing refers to writing in which an individual describes deep thoughts and feelings surrounding relevant event, topic, or area. As the world suffers from the COVID-19 pandemic, educational institutions shifted from face-toface activities to mostly online learning modalities. Students were affected especially from lower socioeconomic localities due to their limited financial capacity to obtain the necessary gadgets and internet connectivity. Also, they felt social isolation, lack of interaction with fellow students and the uncertainty of when the pandemic will be over. The study used experimental design with pre-test and post-test and randomly assigned the respondents into control group writing about their daily activities and the experimental group using expressive writing with each group has 60 respondents. The results showed that the respondents who wrote about their daily activities have no significant difference in their pre-test and post-test while there is a significant difference in the experimental group. Moreover, there is no significant difference in the pre-test of both groups whereas, there is a significant difference in the post-test of both groups in terms of anxiety, depression and physical symptoms. In conclusion, using expressive writing can overcome traumas and emotional upheavals thus resolves issues and improves the health conditions.

Keywords: Expressive writing, Anxiety symptoms, Depressive symptoms, Physical symptoms, COVID-19 pandemic

About the presenter:

Portia R. Marasigan is an Associate Professor 5 at Laguna State Polytechnic University, Philippines. She obtained a Doctor of Philosophy in Psychology graduate at Manuel L. Quezon University. She is a research adviser for BS Psychology undergraduate thesis. She is a lifetime member of the Society for Research Development, lifetime member of the Institute of Industry and Academic Research Incorporated, and section editor of International Review for Social Sciences Research. She published book chapters for "The World in Different Perspectives: Rebuilding Lessons after a Crisis"



Irrational Beliefs and Panic Response of Lagunense during Height of the Covid-19 Pandemic

Jherwin P. Hermosa

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ABSTRACT

The COVID-19 pandemic has affected people worldwide; the economy of the country, social values, and psychological stress of the people involved regardless of the directness of contact with the infected. This study aims to analyze the irrational beliefs and panic responses of the selected Lagunense. It used descriptive and correlational design to determine the two main variables. The sample was selected based on purposive sampling method and this consists of 100 young adults, 52 males and 48 females living in San Pablo City. The study used the survey questionnaire in Google form to gather the data. The results showed that the irrational beliefs which includes activating events, beliefs, consequences was high. The study found significant relationship between irrational beliefs and the profile of the respondents as to age, sex, religion and socio-economic status. There is a significant relationship between the irrational beliefs and panic response of the respondents. Thus, Information drive and awareness among them is highly suggested. Source of news and information about the Covid-19 pandemic should be verified and must only come to the official news portals and agencies to avoid misinformation and fake news.

Keywords: Beliefs, Panic, Covid-19, Resilience

About the presenter:

Jherwin P. Hermosa is an Instructor 1 and chairperson for Innovation and Technology Support Office of Laguna State Polytechnic University San Pablo Campus. He is currently in Dissertation stage for Doctor of Education in Educational Management. He is currently teaching Social Sciences and Philosophy subjects both in the undergraduate and graduate programs at the same University. He has published scientific articles and book in international circulations. He renders expert services in thesis both in undergraduate and graduate studies as an adviser, subject specialist and technical editor mostly related to his research interest on the social sciences, philosophy and educational management.



Rainbow in the Convent: LGBTQ+ Community and Religious Vocation Inclusivity

Jherwin P. Hermosa

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ABSTRACT

This study sought to determine the acceptability of the LGBTQ+ community and religious vocation inclusivity among the selected residents in the City of San Pablo, Laguna by identifying the respondents' socio-demographic information, perceived level of acceptance of the LGBTQ+, and factors affecting LGBTQ+ acceptability. Majority of the respondents were generally accepting LGBTQ+ members based on three thematic areas identified in the study such as religious vocation is a call for everyone. LGBTQ+ expressions of religiosity and LGBTQ+ members as church leaders. Twenty respondents were interviewed via Google meet. Data gathered were analyzed using descriptive, statistical, and narrative analyses. Results showed that the respondents were generally accepting of THE LGBTQ+ community towards religious vocation inclusivity. The study presented the areas of development that the LGBTQ community and religious institutions should focus on communicating to further improve the welfare of the LGBTQ community in the realm of religious vocation inclusivity. Thus, the study recommends to establish a frequent contact with LGBTQ individuals. It is also suggested to have an educational drive and discussions with religious organizations. Future studies may be done using large sample sizes could explore including the perspective of the religious persons such as pastor, nuns and priest.

Keywords: LGBTQ+, Vocation, Religious life, Inclusivity, Church leaders

About the presenter:

Jherwin P. Hermosa is an Instructor 1 and chairperson for Innovation and Technology Support Office of Laguna State Polytechnic University San Pablo Campus. He is currently in Dissertation stage for Doctor of Education in Educational Management. He is currently teaching Social Sciences and Philosophy subjects both in the undergraduate and graduate programs at the same University. He has published scientific articles and book in international circulations. He renders expert services in thesis both in undergraduate and graduate studies as an adviser, subject specialist and technical editor mostly related to his research interest on the social sciences, philosophy and educational management.



Psychological Distress, Coping and Post-Discharge Experience of COVID-19 Survivors: Basis for the Development of Therapy

Livien U. Ciabal

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ABSTRACT

This study focused on the presence of psychological distress and coping during hospitalization and post-discharge experience of COVID-19 Survivors. Participants are all residents of San Pablo City, Laguna with mild to moderate COVID-19 symptoms. The study used snowball sampling or chain-referral to select the participants. The method used was a case study by Yin (2004) involving coding, with-in case, and cross-case analysis in the analysis of data. Due to the threat of virus transmission, data were obtained through a series of virtual interviews. Informed consent was obtained before the actual virtual interview. Through the narrative qualitative approach, the psychological distress, and coping during hospitalization are identified. Further, post-discharge experiences are being discussed and elaborated on. The result of the study showed that manifestation of psychological distress in the form of symptoms of anxiety, symptoms depression, denial, intolerance of uncertainty, and maladaptive thoughts are common among survivors during their confinement. To manage the presence of psychological distress, different coping strategies were used by the participant such as faith and spiritual connection, emotional connection, connection with other family members, positive reframing, restoring physical strength, social support, and cellphone engagement. However, despite these coping strategies psychological consequences emerged as one of the aftermath challenges faced by the survivors. Psychological consequences manifest through different forms of mental health concerns. As a result, a proposed Therapy was developed to help and respond to COVID-19 survivors' emerging mental health difficulties.

Keywords: Psychological Distress, Coping, Post-discharge Experience, COVID-19 Survivors

Context of Sexual Harassment among Junior and Senior High School Students

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ABSTRACT

Sexual harassment is an issue which happens ubiquitous in schools. It can be committed in various forms such as verbal or physical, victims can be anyone regardless of gender however, most victims are female and students, this inflicts not only physical harm but also psychological aspect and worst victims commit suicide. This study assesses the students' perception on sexual harassment whether physical, verbal and mixed it covers the legal methodologies and policy employed by the concerned schools as a whole in implementing the different programs and instructions and the characterization on the nature of work and the working conditions of different participating institutions. Offshoot, this study come up with a training-seminar module intended to increase awareness of the students on sexual harassment. This study utilized descriptive research using convenient sampling technique, data were analyze using frequency & percentage and average weighted mean. Results disclosed that: students unanimously agree that sexual harassment can be on various forms but apparently not aware of other forms of this act; students rarely get an educational information about sexual harassment but noted the importance of faculty, administration and student cooperation to prevent it; hence, there are students who experienced incidents of sexual harassment in the school premises and majority do not report it; majority of the respondents confirms there are no programs, regulations and instrumentalities to prevent sexual harassment in their school. Training module was created to be implemented thru extension project to educate students and help institutions draft a mechanism in handling such cases.

Keywords: Sexual Harassment, knowledge, perception, Awareness, Training module

About the presenter:

Gelbert A. Llanto is a Registered Criminologist. He finished his Bachelor of Science in Criminology degree from the Philippine College of Criminology (Pioneering school of criminology) in March 2010. He took and passed the Professional Regulation Commission (PRC) Criminologist Licensure Examination in August 2010, he finished his Master of Science in Criminal Justice degree at the Philippine College of Criminology – Graduate School in 2013 and in 2016 he graduated Doctor of Philosophy in Criminology in the same school finishing his dissertation on Environmental Crimes and Environmentalism Topic. At present, he is connected at Laguna State Polytechnic University San Pablo City Campus as instructor designated as Extension Unit head of the College of Criminal Justice Education. He is book author and well-seasoned and experienced in the field of criminology and criminal justice.



Competencies of Classroom Teacher-Counselor and Students' Self-Esteem: Basis for School-Based Counselling Program of Humanities and Social Sciences

¹Bel Patrice T. Tisuela & ²Elsa D. Callo

¹Tanauan Institute Inc; ²Laguna State Polytechnic University-San Pablo City Campus

ABSTRACT

The goal of the study was to provide basis of counseling for Humanities and Social Science students with the competencies of classroom teacher counselor and how student's selfesteem was affected. The study looked into the level of competencies of classroom teachercounselor divided into behavioral competencies and work-related competencies and the level of student's self-esteem as indicated by identity, appreciation, acceptance, self-confidence, pride, humility and selfishness. The study used descriptive correlational design. For the academic year of 2021-2022, 147 Grade 11 and Grade 12 Humanities and Social Sciences students of Tanauan Institute Inc. took part in the survey. The findings revealed that the classroom teacher- counselor competencies and students' self-esteem had a substantial association. Based on the findings students may directly share their concerns with their teacher-counselor dealing with personal issues affecting their general well-being and academic progress. They may learn to participate and feel more connected to the adults in their lives. Furthermore, teachers may foster and create a supportive environment that can strengthen students' emotional and social learning capability, focusing on solving problems and making decisions, building relationships and understanding social situations, and understanding oneself and one's emotions. Finally, continue to support the needs of teachers and learners when it comes to the self-esteem of students, which leads to academic success. Strengthening the competencies of teachers-counselors reassure the students' mental health.

Keywords: Behavioral competencies, Work related competencies, self-esteem, counselling

About the presenter:

Bel Patrice T. Tisuela joined Tanauan Institute Inc. in 2016 as Senior High School Teacher. As a Senior high school teacher, she cooperates with the school to create simple, intuitive interactions and experiences for students, work with senior to manage large, complex projects for the school and carry out quality assurance of education to discover errors and optimize the curriculum. In addition, she also trains to be a mental health coach to help and guide students in terms of their struggles in their life such as academics, family and self to keep them motivated and be positive in life.



Effect of Lockdown as a function of Human Happiness: A Pilot Study

Rekha Mahajan

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ABSTRACT

COVID-19 pandemic has affected the world. In India, the lockdown started from 25th March, 2020, and continued for more than three months. The lift of lockdowns was initiated on 1st June 2020, and data on happiness of unrelated individuals was collected online immediately after that using Bradburn Scale of psychologic well-being as the measurement of happiness in the lockdown survey period. Data was recorded on positive as well as negative psychology affecting questions from each individual. Almost equal number of male as well as female individuals with background of working, non-working, staying in nuclear family or in joint family has been studied. It was observed that male individuals were psychologically more affected than females during the period. Psychological happiness was much higher in working female respondents and unhappiness was higher in non-working males. Males and females increased happiness or no effect on their psychology were psychologically better in combating sudden stresses. It can be concluded that the happiness factor of male counterpart were more affected than female counterpart during lockdown period in India. Males or female respondents which showed increased happiness or no effect on their psychology were psychologically better under sudden stresses. The results help in deciding policies like 'work from home' by private companies and government bodies.

Keywords: COVID-19, Joint family, Lockdown, Men, Nucleus family, Unlock 1.0, Virus, Women, Working

About the presenter:

Prof. (Dr.) Rekha Mahajan is the Principal at Jagannath Institute of Education, JEMTEC, Greater Noida. She is a postgraduate in Physics (with specialization in Solid state Electronics) and Education with Doctorate in Education. She has over three decades of teaching and administrative experience at various renowned academic institutions. She has been the founder Principal of two schools located in Haryana. She has authored and presented several research papers at National and International conferences and has delivered several expert talks on relevant topics. She has extensively worked on Self destructive Intelligence Syndrome and Spiritual Intelligence; she has guided post graduate students for their project work and is a guide to Ph.D. scholars for research. She has also been empaneled to review the syllabus at the post graduate level for Education. Dr Rekha Mahajan has been awarded with the Prestigious Excellence in Teaching Award for her outstanding contribution in the field of Education during the International Conference at Maharana Pratap University, Udaipur, Rajasthan, India in December 2017.



Linking Global Competitiveness and Economic Growth to Climate Change

Febrielyn S. Tumines

Economist II, Department of Environment and Natural Resources

ABSTRACT

The threat of climate change has gained its momentum in the last decades. The issue which was previously shrugged off and accused of being sensationalized has been finally recognized because its symptoms have been gradually taking its physical form. Considering the need to continue discourse to the variables that contribute to it, the study was pursued to determine whether there exists a relationship between climate change and the variables economic growth and global competitiveness anchored on the theory of Environmental Kuznets Curve (EKC) Hypothesis for the economic growth- environment relationship, and factor endowment hypothesis and the pollution haven hypothesis for the environment and global competitiveness linkage. To achieve the objective of determining the effect of global competitiveness index and per capita gross domestic product on per capita carbon dioxide emissions, the research employed quantitative research design. The annual data spanning an eight-year period from 2007 to 2014 on per capita carbon dioxide emissions (in metric tons) and per capita gross domestic product of the five selected newly industrialized countries while the values on global competitiveness index was taken from the Global Competitiveness dataset of the World Economic Forum. The study concluded that Global competitiveness index and per capita gross domestic product has a significant correlation on per capita CO2 emissions.

Keywords: Global competitiveness index, economic growth, climate change, carbon dioxide emmissions, Kuznets Curve

About the presenter:

Ms. Febrielyn S. Tumines is currently an Economist II at the Policy and Planning Service - Policy Studies Division of the Department of Environment and Natural Resources, Central Office. She joined the public service prior to that as a Research Staff Assistant under the Financial Markets Research - Research Office of the Government Service Insurance System, Main Office. She finished her Bachelor's degree in Accounting Technology at the University of San Agustinlloilo in 2013. She later on graduated with a Masters of Arts degree in Economics from the Polytechnic University of the Philippines. Her current interests include financial modeling, corporate valuation, policy review/formulation, planning, budgeting, program/ project development, monitoring and evaluation, environmental economics, and regulatory impact analysis.



Teen Suicide in One Province in Cordillera

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¹Isabela State University-Echague Campus; ²Ifugao State University-Lamut Campus; ³University of Baguio

ABSTRACT

Teenage suicide is increasingly happening during the peak of the Covid-19 pandemic. The study was conducted purposely to determine the profile of victims of suicide as to age, gender, and educational background and identify the causes of teen suicide in one province in Cordillera. A qualitative design and snowball sampling method were used to identify the 8 respondents from PNP officers, Teachers, and Department of Social Welfare and Development (DSWD) personnel. The researchers took the respondents' consent before gathering data through Google forms. The study revealed that teens who commit suicide are between 1-21 years old and 22-41 years old. The majority of victims of suicide are males, senior high school and college students. Causes of teenage suicide are the unseen image of suicide, depression, stress, personal problems, and promises not fulfilled due to poverty and hanging.

Keywords: Teenage, suicide, province, Cordillera

About the presenter:

Evarista Binwag Gano is a Ph.D. Crim student at the University of Baguio and presently connected at Ifugao State University -Lamut Campus, Philippines. She has been a faculty member of the College of Criminal Justice Education for 6 years. She is new to research and presentations, but attended seminars and training to improve her knowledge in this area. She was also designated as a college research coordinator and attended only one local presentation, and was an observer of some research presentations as a student in Ph.D. Crim, She gained more knowledge on how to make research as output in the subjects. These experiences helped her a lot to surpass challenges in doing research. Her knowledge and experience prepare her to understand research, publication, and presentation better. She can say that the University of Baguio and her professors honed and prepared her to present an international research presentation, which is a rare opportunity.



Business, Management and Accounting Track

Management Styles and Entrepreneurial Skills of Managers in Real Estate Development Companies in Quezon

Zarah Ydizza A. Ranuda Colegio de Santo Cristo de Burgos

ABSTRACT

This study analyzed the management styles and entrepreneurial skills of select managers of real estate development companies in Quezon Province through descriptive research methods. Through a survey of 120 managers and supervisors, the results showed that managers were considered autocratic in such a way that they always have an eye on timings and milestones, believe in recurring task for effective teamwork, correcting others even at the expense of the working group and get buzzed from coaching others when they faced with a new challenge. They were like democratic when analyze problems in detail, faces substantial challenges, shape and build effective team, and implement multitasking activities. On the other hand, managers became persuasive when motivating employees to overcome difficult challenges and complete task ahead of relationships with people and laizzes-faire management style was practiced when managers respect the work-life balance and listen to colleagues, instill creativity and initiatives to employees, manages time efficiently and effectively, , learning new skills and facing new challenges, apply learning in workplace, get involved subordinates in decision-making, convey importance of details, and encourage new ways of learning. Furthermore, the aspects of entrepreneurial skills include competency, proficiency, and expertise of managers in real estate development business. There is no significant relationship between the entrepreneurial skills and management styles of managers. The management shall capacitate its employees through the conduct of seminars and trainings related to work assignments, regularly implement team building activity, and clear employees performance appraisal and reward systems in order for them to have in depth commitment and involvement in the company.

Keywords: stress, COVID-19, coping, health and fitness

About the presenter:

Zarah Ydizza A. Ranuda is an academic achiever and researcher. She completed her Master in Business Administration from Lyceum of the Philippines-Batangas through a Commission on Higher Education (CHED) scholarship program. She finished Bachelor of Science in Computer Science and also took her uniting for teacher education at Calayan Education Foundation Inc. year 2020. She shares her knowledge and expertise in Colegio de Santo Cristo de Burgos as Assistant Principal and Program Head in Computer Science. She is a member of Council of Deans and Educators of Business in Region IV-A (CODEB4A).



Effects of Supermarket on Small Retail Business

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ABSTRACT

This study assessed the effects of Waltermart Supermarket on small retail businesses in Candelaria, Quezon, Philippines. Using the adapted standardized guestionnaire of Cantuba et al. (2015), retailers assessed the effects of Waltermart on their sales and revenue, product movement, and customer attraction and retention using the 5-scale Likert style. The adapted standardized questionnaire of Lee et al. (2008) was also used to assess the strategic response of the retailers to maintain sustainable operation using marketing practices, merchandising practices, customer service practices, and business operation practices using 5-scale Likert style. A total of sixty registered retailers were used as the sample. Findings revealed that retailers are moderately affected by the presence of Waltermart with 'customer attraction and retention' ranked the highest, and 'sales and revenue' as the lowest. In terms of strategic practices used by retailers to maintain sustainable operation in the presence of Waltermart, findings revealed that 'business operation practices' ranked the highest, and 'merchandising practices' as the lowest. For this, retailers need to continue an effective business operation and enhance the quality, competitiveness, and availability of the product through good inventory quality control management. Selling products at a competitive price, offering bundled and discounted products, re-organizing store layout, and providing good store ventilation with a hygienic environment are good practices that attract customers. As the study offers an assessment of the effects of Waltermart on retailers, the results suggest an in-depth analysis of the impact of supermarkets on the retailer's performance through financial ratios.

Keywords: Waltermart Supermarket, small retailers, sustainable operation, business operation, inventory quality control management

About the presenters:

Ms. Katrin I. De Villa is a Bachelor of Science in Accountancy graduate at Tayabas Western Academy, in Candelaria, Quezon, Philippines. She is also a professional licensed teacher and a Master in Business Administration graduate at San Pablo Colleges, San Pablo City, Laguna. A certified bookkeeper, and currently employed by the Department of Education as Teacher III for Senior High School at Recto Memorial National High School, Tiaong, Quezon. As an Accounting and Business Management (ABM) Teacher, she teaches subjects like Fundamentals of Accounting 1 and 2, Entrepreneurship, Finance and Marketing, and other major business subjects. As a business researcher, her mission is to contribute and share her knowledge with the research community that will help in the nation's building and sustenance.



Darlene U. Banaera is an avid lover of pursuing academic excellence and has always dreamed of earning acknowledgment with her works and writings. She was born on the 27th of January 2000 and took up a Bachelor of Science in Accountancy at Tayabas Western Academy. Usually aloof, she spends her time reading books, scribbling thoughts, playing board games, and gardening. A breadwinner to her family that is why she's highly ambitious, determined, and strong. She has always been fervent about writing and doing research. Her passion, energy, and enthusiasm for writing a research study are true, real, and undeniable – a lifelong learner with an ongoing curiosity to learn new things.



Establishing, Piloting, and Evaluation Community-Managed Tour Trek in Sagñay, Camarines Sur

Ariane Pesimo-Abundabar Partido State University

ABSTRACT

Tourism has always been regarded as one of the Philippines' most important industries and a major source of revenue. Different destinations in the country are known for their cultural diversity and natural beauty. In fact, many sites are still left to be explored and developed. The study assessed the local community's perception of tourism development in the area and aimed to propose a community-managed tour trek. Interviews, surveys, ocular visits, and mock tours were conducted to achieve the objectives of the study. Results show that the local community perceives that tourism development in the area can be a tool to help the community through improved livelihood, environmental protection, and cultural appreciation. The local community recognizes the importance of tourism development and the need for participation of all the stakeholders. A community-managed tour trek was proposed by the researcher based on the inventory of tourism products in the area. The tour trek highlights the natural and cultural resources of Sagñay, Camarines Sur. The local community was tapped as the primary stakeholders together with the local government unit. A pilot test was conducted to evaluate the proposed trek and provide a suitable offering to prospective tourists. Furthermore, the study shows that there is a need for strong commitment among the local community and the local government to assure the successful management of the proposed community-managed tour trek. It has the potential to have a significant impact, particularly in terms of improving the community's welfare in the future.

Keywords: tourism, development, community, tour

About the presenter:

Ariane Pesimo-Abundabar is a core faculty member of the Bachelor of Science in Tourism Management Department at Partido State University San Jose Campus in Camarines Sur. She holds a Bachelor of Science Degree in Tourism Management major in Development Tourism Management from Ateneo de Naga University. She also holds a Master of Science degree in Hospitality Management major in Tourism Management from Centro Escolar University Manila. She is currently taking Doctor of Business Administration at Ateneo de Naga University. She is a consultant, researcher, speaker, trainer and extension partner engaging in sustainable tourism programs and community-managed development initiatives.



Delivery of Environmental Management Programs in the Municipality of Banga, Aklan, Philippines

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ABSTRACT

The delivery of environmental management programs in the municipality of Banga, Aklan, Philippines was evaluated adopting the Citizen Satisfaction Index System (CSIS). Multi-Stage Random Probability Sampling technique was utilized to determine the samples. Barangays with larger share of the population based on the Philippine Statistical Authority's Data on Census Population and Housing for the year 2015 contributed more respondents to the 150 targeted participants. Kish Grid was used to select the qualified sample respondents based on the inclusion criteria. Pre-numbered questionnaires were administered where odd numbered were targeted for male respondents and even-numbered were for females. Awareness, availment, satisfaction and need for action were used in evaluating the assessment of the respondents. Moreover, interview was done to better understand, and explore the opinions, behavior and experiences of the respondents. The reasons for their response were likewise gathered. The responses were presented in frequency and percentage distributions. The study concluded that majority of the respondents were highly aware of the community-based greening project. On the other hand, low awareness was noted on projects such as air pollution control program and waste-water management. A high percentage of respondents availed environmental management programs except for solid waste management. Overall, majority of the respondents were satisfied of the environmental management programs rendered by the local government unit and therefore needs less action.

Keywords: environmental management, awareness, availment, satisfaction, need for action

About the presenter:

Miss Jyanee Loi D. Yecla is connected to the Aklan State Univeristy Main Campus as Instructor I faculty of the School of Arts and Sciences under the Department of Natural Biological Sciences and Mathematics. With her interest in the field of research as a young researcher, she engages herself in various research fora to equip herself with necessary skills, knowledge and attitude to bloom in the field of research.



Selected Factors Affecting the Subsectors of the Philippine Agriculture: A Panel Regression Analysis

Patrick R. Diaz Polytechnic University of the Philippines

ABSTRACT

The study examined the effects of exports to GDP, employment, and production loans granted in the GDP agriculture of the Philippines. The study employed descriptive and quantitative techniques to analyze the behavior of GDP, production loans granted (PLG), exports to GDP (EGDP), and employment (EMP) from 2005 to 2015 totaling 33 observations of agriculture, forestry and fishery sectors. Specifically, panel data analysis was used to assess the effects of APLG, EMP, GDPt-1 and AEGDPt-1 in GDP. The fixed effect model corrected from autocorrelation and heteroscedasticity, a one percentage unit increase in the exports to GDP, on the average, leads to Php 774.96 increase in the GDP, other things equal; and a one unit increase in employment, on the average, leads to PhP23.55 increase in the GDP, other things equal; a one peso increase in the production loans granted lagged by one period, on the average, leads to Php 0.4760 increase in the GDP, other things equal. Using the fixed effect model, all the explanatory variables such as, exports to GDP, employment and production loans granted lagged by one period exhibited significant effect on the GDP agriculture. Hence, the model is considered satisfactory from statistical perspective. The results from the fixed effect model were consistent with the priori expectations that exports to GDP, employment and production loans granted lagged by one period positively affect the GDP agriculture.

Keywords: agriculture, GDP, exports, production loans, employment

About the presenter:

Patrick R. Diaz is a graduate of the Master of Arts in Economics program in 2019 at the Polytechnic University of the Philippines. He also earned a Bachelor's degree in Banking and Finance in 2013 at the same university. He is working as a lead specialist for an international financial technology company, skilled in financial data analysis and equity research.



The Effect of Structural Change on Labor Productivity Growth and Employment in the Philippines

Mikhael D. Laurente

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ABSTRACT

Philippines is considered one of the fastest developing economies because of the growing service sector. This growth brought a significant change in the economic structure of the country which previously relied on the agricultural sector. This paper conducted a study about the significant impact of structural change on labor productivity growth and employment. The paper localized the decomposition analysis used in literatures to extract the share of "within" sector and "structural change" to total changes in labor productivity in the Philippines from 2004-2018, and Applied Pooled Least Square, to obtain the impact of structural change to labor productivity growth and employment. Based on Durbin-Watson test results, both Panel Regression Equation and Seemingly Unrelated Equation were utilized because there is no contemporaneous autocorrelation found in Pooled Least Square. Using Breusch-Pagan LM Test, Panel Regression is deemed more appropriate than Seemingly Unrelated Regression. Furthermore, the decomposition analysis showed that higher share of service sector in employment makes the contribution of "structural change" lesser to labor productivity growth due to labor market that becomes less flexible as service sector dominates the labor market because of higher skillsets needed by the sector. The regression analysis showed that structural change is a significant determinant of employment and labor productivity; structural change has a positive relationship to labor productivity due to the transfer of labor to highproductivity sector; and structural change has a negative relationship to employment because the employment brought by the structural change cannot be absorbed by the labor force because of skills mismatch.

Keywords: Structural Change, Labor Productivity Growth, Employment, Seemingly Unrelated Regression Equation Model, Panel Regression

About the presenter:

Mikhael D. Laurente was a former Research Specialist at Integreon Manage Solution Inc. in 2019 where he did historical director data clean-up project. He was also previously employed as a Research Analyst in 2013 and promoted as a Senior Research Analyst in 2016 in Factset Philippines Inc., a leading financial information provider worldwide. At Facset Philippines, Inc., Mr. Laurente analyzed, gathered, and collected financial and key performance indicators (KPI) data of companies as defined by the collection policy and guidelines. He served as an intern in the Department of Trade and Industry in 2012 where he worked as a research assistant in formulating sectoral roadmap for coconut coir industry. He graduated with the degree Bachelor of Science in Business Administration major in Business Economics at the University of Santo Tomas in 2013. Currently, he is finishing Master of Arts in Economics at the Polytechnic University of the Philippines.



An Analysis of Reverse Repurchase Rate on Selected Monetary Policy Indicators: A Vector Autoregression

Martin Roy B. Base

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ABSTRACT

This study evaluated the effectiveness of the reverse repurchase (RRP) rate as the main monetary policy instrument of the Bangko Sentral ng Pilipinas in affecting selected monetary policy indicators, particularly output gap, inflation, and nominal exchange rate, through a modified New Keynesian monetary policy model using vector autoregression (VAR). The results showed that changes in the RRP rate affects output gap, inflation, and nominal exchange rate, albeit not statistically significant. In addition, the "price puzzle" was seen in the results. This pertains to an increase in inflation after monetary policy contraction which is in contrast with the standard monetary policy theory.

Keywords: monetary policy, interest rate, monetary economics, macroeconomics

About the presenter:

Martin Roy Base is a MEAL Officer at Save the Children Philippines. His other previous experiences involve working as a Planning Officer at Department of Trade and Industry, Budget and Management Analyst at the Department of Budget and Management and as an Accounting Staff at Bangkok Bank PCL – Manila Branch, among others. He has acquired his Bachelor's Degree in Accountancy at Divine Word College of Legazpi in 2014. He entered Graduate School in 2017 and took up Master of Arts in Economics at the Polytechnic University of the Philippines. His field of interests in research include Macroeconomics, Development Economics, Public Economics, Labor Economics, and Monetary Economics.



Documenting the Performance Evaluation of Job Orders in One State University: Input to Policy Recommendation on Personnel Counseling Program

Nicole Silvestre, Roi Ivanne De Hitta, Mario R. Briones, Annaliza B. De Roma & Delon A. Ching

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

Performance evaluation of employees in different sectors specifically in an educational institution is necessary since it is a predictor of the service quality to be delivered to its target clientele. To ensure that employees will be retained in service, particularly the job orders in Laguna State Polytechnic University, it is a regular activity of the human resource office to assess the performance. This descriptive research is focused on effectively documenting the performance of the 52 purposively selected job order employees based on the kept records of the human resource office from the first to fourth quarters of the calendar year 2021 which would lead to a policy recommendation on personnel counseling program. The results of the study showed that the employees were assessed to manifest a very satisfactory to an excellent level of performance to deliver the quality of service concerning the quantity of work, quality of work, job knowledge, learning ability, punctuality, and attendance. Most of the employees assessed performs very satisfactorily to excellent levels when it comes to behavioral performance that covers their judgment, initiative & creativity, dependability, cooperation, and human relations. It was noted that there is a significant difference among the performance levels of employees from first to fourth-quarter that there is an increased level of performance in fourth compared to first-quarter showing the better quality of work. Furthermore, better performance in 4th quarter is manifested compared to 3rd quarter in showing very satisfactory to excellent human relations.

Keywords: Human Resource Management, Quality of Service, Behavioral Performance, Job Orders, Counseling Program

Expectations on key Success Competencies of the Hospitality Management Students: An Analysis of Flexible Learning Outcomes

Ninevetch Grace O. Marco, Lorena H. Garcia, Adrian G. Maliksi, Anicia C. Pampolina & Delon A. Ching

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ABSTRACT

Every educational institution prepares students to become work-ready and competent to handle situations in line with their specialization. The imposition of quarantine levels due to the COVID-19 pandemic hinders schools to develop further work skills for the students. This study examined the expectations of the professionals and students with regard to the key success competencies of the hospitality management students who are products of the implemented flexible learning of one state university of the Philippines. The study utilized descriptive and comparative research design to establish whether professionals and students have common expectations of the skills of hospitality graduates of one state university in Laguna. It was found out that both the professionals and students have the same level of expectations which is high on in the key success competencies of the hospitality management, human relations-communications, operational knowledge, however, there is a difference on financial analysis. Further, it was found that there is a significant relationship between and among the degree of expectation on key success competencies of the hospitality management students.

Keywords: Hospitality Management, Hospitality Competency, Leadership, Financial Analysis, Human Resource Management, Communications, Operational Knowledge

About the presenter:

Ninevetch Grace O. Marco is a licensed professional teacher and currently the associate dean of the College of Hospitality Management. She finished her Doctor of Business Management major in hospitality management at Philippine Women's University Manila. She is an active member of COHREP and currently the Vice President Of Council of Hotel and Restaurant Educators of the Philippines Region IVA.



Cyclescapes: Revolutionizing Biking Facilities towards Inclusive Mobility

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ABSTRACT

The emergence of the COVID-19 pandemic not just exposed the traffic situation in the Philippines, but also pave the way to consider cycling as means of transportation. In the light of the campaign to encourage the use of bicycles as alternative transportation and provide health security for people during and even after the pandemic, Cyclescapes Project Design was developed to promote an effective bike network. The project design was based on the design toolkit provided by the Department of Health, analysis of the gathered data from the preferences of cyclists and the tourism department of the local government of San Pablo City, as well as from the inputs of experts and professionals. The project design was composed of the bench, bike racks, and rainwater collection system to harvest rainwater for use in the toilet, and an air pump for bicycle tires. The respondents evaluated the project design and viewed it highly acceptable in terms of aesthetics, layout, concept, appropriateness, value, and safety. The proposed Bike Stop Plan and Cycling Routes were also highly acceptable as perceived by them. This was a manifestation that the project design has met the objectives and requirements for the establishment of a cycling facility. Thus, it is highly recommended by the local government in San Pablo City to materialize the proposed project design. Provisions for streetscape plans as well as mapping of potential bike routes may be considered to revolutionize biking facilities and promote inclusive mobility.

Keywords: biking facilities, cyclescapes, inclusive mobility, streetscapes, bike stop plan

About the presenter:

Jeanelyn R. Rodegerio is an instructor I of Architectural Drafting in the College of Industrial Technology, and a member of technical working group Bids and Awards Committee of at Laguna State Polytechnic University in San Pablo City, Philippines. She is currently pursuing master in technology at Technological University of the Philippines in Manila, Philippines. Her research interests include the acceptability of sustainable materials and facilities, as well as innovative teaching and learning technology.



Training Needs Assessment of K-12 Teachers on Food Related Subjects: An Input for Feasible Extension Project

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ABSTRACT

Education 4.0 incorporates real and virtual world knowledge as a transition from Education 3.0. As the K-12 program hone students to be skilled workers, it is a great need for teachers to constantly update their knowledge and acquire new skills that match the demand of the industry. Training Needs Assessment (TNA) is the method of assessing if there is a need for training to fill the gap. Thus, the study aimed to assess the knowledge of selected K-12 DepEd teachers on food-related subjects and identify possible needs for intervention. The study utilized the descriptive research design using both qualitative and quantitative analysis. It involved a total of 28 Technology and Livelihood Education (TLE) teachers from the 12 elementary schools in San Pablo City, Laguna. A developed questionnaire was the major instrument used in gathering quantitative data. On the other hand, the one-on-one interview was applied to validate the answers of the respondents as well as to gather more salient information. Finding shows that the topics Good Manufacturing Practices (GMP), Culinary Arts, Food Processing, Bread and Pastry Production, and Sensory Evaluation in Research got the lowest mean scores. Thus, the respondents are recommended to have further training on these topics. These topics are integrated into the proposed training plan of the study. It is recommended to capacitate teachers of the skill-based subject on current trends and technologies and sustain the conduct of training through collaborations with other educational institutions for continuous professional growth and learning of teachers.

Keywords: training needs assessment, K-12 teacher, food-related subjects

About the presenter:

The presenter took Bachelor of Science in Industrial Technology major in Food Technology at Laguna State Polytechnic University San Pablo City Campus. She finished Master of Science in Family Resource Management at University of the Philippines Los Baños last 2017. She worked as a high school teacher teaching Technology and Livelihood Education for 2 years and acted as a guidance counselor for a year at Morning Star Montessori School Inc. Currently, she is an instructor at the College of Industrial Technology of Laguna State Polytechnic University San Pablo City Campus. She is an instructor of Food and Beverage Preparation Services Management subjects. Lastly, she acts as the Extension Unit Head of the college.



Person-Environment Fit: Empowering Leadership Practices on Teachers' Work Engagement and Motivation

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ABSTRACT

With schools emphasizing work teams, it is vital to identify teachers who can contribute to a particular work environment. The degree to which an individual and their work environment are compatible is referred to as Person-Environment fit (P-E fit). P-E fit is utilized to predict teachers' work engagement and motivation in this study by examining multiple characteristics of their work environment, including their vocation (person-vocation fit), organization (person-organization fit), and group (person-group fit), and job (person-job fit). The study surveyed 117 public school teachers from the DepEd Division of San Pablo City. Multiple regression analysis was utilized to identify significant predictors of teachers' work engagement and motivation. According to the research, P-E fit is highly observed among public elementary school teachers. Similarly, teachers' work engagement was high, and a high degree of work motivation was evident. Moreover, there was a moderate degree of correlation between factors. Finally, both Person-Organization fit and Person-Group fit were found to be significant predictors of teachers' work engagement and motivation. The study's findings explore the implications of applying the Person-Environment fit to human resource management and organizational leadership practices.

Keywords: person-environment fit, work engagement, work motivation, teacher quality

About the presenter:

John Vincent C. Aliazas is a licensed professional teacher, an assistant professor of science education in the College of Teacher Education, and the chairperson of the senior high school program at Laguna State Polytechnic University in San Pablo City, Philippines. He earned a master of arts degree in science and technology in 2014 and is currently pursuing a doctor of philosophy in science education at Philippine Normal University in Manila, Philippines. His research interests include the use of digital learning, technology for teaching and learning, and science education.



Ethical Practices and Organizational Sustainability of a State University in San Pablo City Laguna, Philippines

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ABSTRACT

Ethical practices as viewed on the three ethics approaches can drive leader and employee involvement in sustainability-related behaviors. This study sought to determine ethical practices of employees and leaders of a state university in San Pablo City, Laguna Philippines as well as the institution's sustainability. A descriptive research was conducted through a survey administered to sixty-six (66) faculty members. The study also investigated if there are differences on the ethical practices of the leaders and employees when grouped according to profile factors as well as looked into the relationship between ethical practices and organization sustainability. The study revealed that the leaders and employees highly put into action the ethical practices in relation to Kantian, Virtue and Care Ethics. Moreover, the level of sustainability as exercised by the institution in terms of its contribution to society and the environment is perceived to be highly practiced. Furthermore, it was concluded that there is no significant difference on the ethical practices of the leaders and organizational sustainability was established. It is recommended that cross sectional study may be conducted to employees with longer years and higher academic rank.

Keywords: ethical practices, organizational sustainability, Kantian, Virtue, Care

About the presenter:

Marierose P. Valenzuela graduated with a BS Applied Mathematics at the University of the Philippines-Los Banos and with a Master in Business Administration at San Pablo Colleges (SPC). She is also presently taking up and have already earned 48 units in Doctor in Business Administration at SPC. She has been in the rural banking industry for 20 years before going back to the academe as she had her previous experience in education at the De La Salle University-Dasmarinas from 1991-1994. She is at present an Instructor 1 and the Program Coordinator of BS Business Administration at the Laguna State Polytechnic University, San Pablo City Campus, Laguna, Philippines.



Governance and Employee Retention: An Industry Risk and Outlook during Pandemic

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ABSTRACT

This paper was focused on the assessment of governance risks and its effects to employee retention of service-based businesses in Laguna. Descriptive research and purposive sampling were employed with 360 retrieved questionnaires. The questionnaire used in this study underwent reliability testing with acceptable to good internal consistency. Data were evaluated using statistical tools of frequency, rank, mean, weighted mean and ANOVA. The highest weighted mean for the governance risks experienced by business owners during the pandemic in relation to planning is the suspended implementation of goals and objectives. Meanwhile, in terms of monitoring and control, unpreparedness on future risks was ranked first. Management support to the professional needs of its employees is significant for reduced turnover of employee retention. Moreover, for the employee productivity, "Involvement of the employees to the business planning" got the highest mean. Planning, and Monitoring and Control have significant difference when grouped according to service sector. While, under employee retention, reduced turnover is significantly different when grouped according to profile factors. However, the employee productivity showed only significant difference when grouped by service sectors. The findings suggested that Local Government may develop activities for governance management and employee empowerment to help the service-based businesses recover.

Keywords: governance risks, employee retention, micro, small, medium enterprises and pandemic

About the presenter:

Dr. Elaine Joy C. Apat is a college instructor and research enthusiast of an ISO certified University in Laguna Province, the Laguna State Polytechnic University, San Pablo City Campus, Laguna Philippines. She is currently the Bachelor of Science in Office Administration Program Head, Research Implementing Unit Head of her College and the Campus' Coordinator of Student Handbook Development. She presented and published numerous papers internationally and locally. Also, a member and officer of various research and leadership organizations in the Philippines and abroad. Her research focus are areas of management, economics, business policies, taxation and human resource. She recently graduated with the degree of Doctor in Business Administration with academic excellence award -Magna Cum Laude for graduate programs.



Dynamics of Job Satisfaction and Its Intervening Effect: An Empirical Study of Diversified Company

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ABSTRACT

The purpose of this study is to unearth and bridge a population gap, which is the mediating effect of job satisfaction on the relationship between dynamics of job satisfaction, i.e., work-life balance, leadership and employee retention. This is a quantitative study, and the study's purpose is hypothesis testing. The type of investigation is correlational in a non-contrive study setting. This study was conducted with minimum researchers' interference. The time horizon of this study is cross-sectional. The unit of analysis is individual, i.e. managerial employees and non-managerial employees in XYZ diversified Company, using a sample of 77 selected based on simple random sampling. Data was gathered through a self-directed questionnaire. In order to bridge the identified population gap, a set of hypotheses was developed based on theoretical and empirical justifications. The findings suggest that there is a mediating effect of job satisfaction on the relationship between work-life balance and retention. Employee retention is crucial for any organization's success. Organizations should give more emphasis on the constructs such as work-life balance and job satisfaction in order to enhance the retention of employees.

Keywords: Employee Retention, Job satisfaction, Leadership, Work-Life balance

About the presenter:

Dr. Anuradha Iddagoda is a Senior Lecturer in the Management Sciences Unit, Faculty of Applied Sciences, University of Sri Jayewardenepura Sri Lanka. She is PhD holder from the University of Sri Jayewardenepura Sri Lanka. She does research in Human Resources. She also completed a MBA in Human Resource Management at PIM- University of Sri Jayewardenepura, Master of Information Technology (MIT) and the Bachelor of Information Technology (BIT) degree from Charles Sturt University, Australia.



Employers' Feedback on the Job Performance of Graduates of One Higher Educational Institution in the Philippines

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ABSTRACT

The success of the curricular program offered by an institution is measured based from the quality of graduates produced. The evaluation of the current employers may serve as basis for quality inspection whether academic success is realized among the graduates. This study aimed to summarize the feedback given by the employers as to the job performance of graduates in one state university. The study employed mixed method of quantitative and qualitative research participated by 103 employers in Laguna mostly teaching personnel from private and public schools. Based from the result of the study, the graduates of Laguna State Polytechnic University show excellent manifestation of integrity, professionalism and innovation in fulfilling their roles and responsibilities at work. When grouped according to gender, the study revealed that there is no significant difference between male and female respondents which implies both groups perform their tasks with the same level of integrity, professionalism and innovation. Moreover, there is a positive significant relationship between and among the attributes of LSPU graduates indicating that each are contributory in realizing success at work. Lastly, as evaluated by employers, graduates showcase good qualities of being a teacher through work ethics, positive attribute and commendable competence.

Keywords: industry employment, tracer study, employer's feedback, integrity, professionalism, innovation

About the presenter:

Clarissa F. Gregana is an Instructor 1 of science education in the College of Teacher Education, and CTE-GSAR Alumni Coordinator at Laguna State Polytechnic University in San Pablo City, Philippines. She earned a master of arts degree in science and technology in 2018. Her research interests include the use of technology for teaching and learning in science education.



Learners' Competencies: Its Impact on Financial Literacy Skills and Practices Among Third Year Students

Julieta A. Sumague

Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

This study was aimed to determine the learners' competencies and its impact to the financial literacy skills and practices among the third-year students of the College of Business Administration and Accountancy of Laguna State Polytechnic University - San Pablo City Campus. A survey was done that involved 217 students. The questionnaire intended to measure the learners' competencies in relation to their financial literacy skills and practices. This research also looked into the relationship between variables which are profile of the respondents and financial literacy skills and practices. It also examined if there is significant relationship between learners' competencies and financial literacy skills and practices. The researcher used self-made questionnaire and was limited to determination on the perception of the respondents on the variables used. The collected data were tailed, tabulated and treated statistically. The study revealed that third-year students' competencies are good when it comes to thinking critically and communication. Moreover, the results showed that students are also good in money management, saving plan, and knowledgeable in investing in the future. Based on the findings of the study, it was found out that that there is no significant relationship between the profile of the respondents and their financial literacy skills and practices while there is a positive relationship between learners' competencies and financial literacy skills and practices

Keywords: learners' competencies, financial literacy skills and practices, critical thinking, money management, saving plan

About the presenter:

Julieta A. Sumague took up Bachelor of Science in Business Administration, major in Accounting at the University of the East, Recto Manila, Philippines. She finished Master of Arts in Teaching (MAT) major n English at the Laguna State Polytechnic University (LSPU), San Pablo City Campus, Laguna, Philippines. At present, she is an Assistant Professor III and teaching in the College of Business Administration and Accountancy (CBAA) at LSPU. She handles Methods of Research, Intensive English Language Proficiency, Business Communication and Internship Program both for local and Business Process Outsourcing (BPO). She attended different seminars, conferences, trainings, and workshops on researches and language communication. She acted as Research Evaluator, Coordinator, and Facilitator in her campus and other campuses in Laguna, Philippines. She is a member of different organizations in the Philippines.



Investigating the Effects of Technostress towards Institutional Functions and Life Satisfaction among LSPU Instructors

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ABSTRACT

This research investigated the effects of technostress towards work commitment and life satisfactions of LSPU instructors. It utilized descriptive and correlational design using a researcher-made questionnaire with 60 respondents. To determine the effects of technostress to work commitment and life satisfaction, Pearson correlation was used to determine the effects of technostress to work commitment and life satisfaction. The study found out that the technostress such as techno-complexity, techno-insecurity and techno-uncertainty were moderate. The institutional functions in terms of instruction, research and extension services were moderate while the life satisfaction such as career, social and financial status were also moderate. The study also revealed that technostress is significantly related to institutional functions and life satisfactions of the LSPU instructors. In terms of profile, general technostress of instructors did not vary by gender and years of service, and varied by age. Thus, it recommends the establishment of an institutional health and wellness program for faculty. The administration could intensify the rewards, merits and incentives policy to faculty members as a form of appreciation. Further research about the technostress using other variables, wider respondents and qualitative method to validate or contradict the result.

Keywords: Technostress, life satisfactions, Institutional functions, flexible learning

About the presenter:

Elaine F. Francisco is an assistant professor 1 at the Laguna State Polytechnic University. She holds a doctoral degree in Education major in educational management (2021). She currently serves as the Regional President of Associations of Directors and Coordinator of Culture and the Arts. She teaches physical education subjects, personality development and management subjects at the College of Business Administration and Accountancy. She renders expert services as thesis adviser and subject specialist both in the undergraduate and graduate programs of the University.



Ethical Practices of Laguna State Polytechnic University: Basis for Designing Organization Sustainability

Ismaela Bawica, Carol Maghirang, Desiree Wagan & Delon Ching Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

Laguna State Polytechnic University (LSPU) recognizes the unequal status and situation of women and men. Every organization needs strong leaders who are committed to three things: technical and professional quality, competence, and excellence an ethical orientation that enables long-term success. The study examines the importance of ethical leadership in building a long-term organization. The study hopes to create a conceptual model that links ethical leadership to organizational climate and culture, resulting in the formation of a longterm organization. This study was conducted at Laguna State Polytechnic University Santa Cruz Campus, Cubical Sta. Cruz, Laguna. The main instruments used in this study was questionnaire distributed to the employees via Google form. The average mean was 4.420 and standard deviation were 0.671. The Pearson correlation according to the ethics between the employees and leader were -0.9433, df were 14 and T-stat were 73.62. The importance of sustainability professionals in effecting essential changes to organizational structure and operational principles will only increase in the coming years. It may not be possible to develop a single, straightforward strategy for evaluating the success of sustainability employees across the board. However, effective managers with well-defined objectives and predefined measures will achieve quantifiable results.

Keywords: technical and professional quality, competence, excellence, organizational sustainability

Use of Internet Financial Reports in Budget Projections: Experience of Undergraduate Performance Management Students

Rodrigo M. Velasco Gulf College, Sultanate of Oman

ABSTRACT

This study is an action research that integrated the financial reports available from the Muscat Securities Exchange in the coursework assessment of the accounting and finance students under the Performance Management module. The primary goal of the strategy was to let students develop critical analysis while embracing the very nature of the securities market as well as increase the marks of the students while reducing plagiarism percentage in their assignments. This method allows students to be critical in terms of company selection, financial report and method of analysis. This individualized approach was implemented for a period of four semesters beginning the first semester of the Academic Year 2019 until the second semester of Academic Year 2020 in the performance management module assignment. The results proved that the use of internet financial reports help improve critical analysis through the evaluation of the first class during the Academic Year 2021 – 2022, and reduce plagiarism through the individualized calculations and analysis of budget projections. Although the assessment seem repeated every semester, the application of new sets of internet financial reports allow greater application of theory to practice.

Keywords: internet financial reports, budget, performance management, accounting, finance

About the presenter:

Dr. Rodrigo M. Velasco has a multi-cultural perspective of education and research having worked as a professor and administrator in the Philippines, CNMI, USA and Sultanate of Oman. His orientation on multiculturalism and diversity trained him to cope with different cultural and geographical settings. He is currently an assistant professor of business management and accounting at Gulf College, Sultanate of Oman. As an academician, he has professional qualifications such as Doctor of Business Administration, Diploma in Strategic Management and Leadership from School of Business London, and Certified Human Resource Professional and Certified Marketing Professional from Qualifi, United Kingdom. As a researcher, he founded the Institute of Industry and Academic Research Incorporated as a platform for open access publications.



Science, Technology, Engineering and Mathematics Track

Problem-Based Learning Materials in Upskilling of Critical Thinking Skills in Mathematics

¹Ideza Carmela Magpantay & ²Allen Pasia

¹Department of Education – Division of San Pablo; ²Laguna State Polytechnic University

ABSTRACT

This study sought to find the effects of problem-based learning (PBL) material to the critical thinking skills of Grade 10 students and determine its guality as to learning experience, learning outcomes, effectiveness and efficiency, user-friendliness, and congruence. The perceived quality was then correlated to the critical thinking skills after the use of the learning material. With the use of experimental research design, thirty-eight (38) Grade 10 students for school year 2021 – 2022 in a public high school from San Pablo City were exposed to problembased learning materials during the third quarter on the topics permutations and combinations and probability of compound events. The researcher sought their perception on the quality of the problem-based learning material through a survey guestionnaire and assessed their critical thinking skills before and after the use of the material using paper and pen test. These instruments were validated by experts. Results revealed that learning experiences relate to inferring, communicating and problem solving. There is also significant relationship between learning outcomes and communicating and problem solving. Both effectiveness and efficiency and user-friendliness significantly relate to communicating. Congruence relates significantly to all critical thinking skills. Thus, if the learners perceived that the material possessed these desired qualities, it is likely that they have high levels of critical thinking skills. T-test results suggested that the critical thinking skills of the students before and after using the PBL materials were significantly different. This implied that the use of such materials is effective in improving students' level of critical thinking skills.

Keywords: Problem-Based Learning Materials, Critical Thinking Skills

About the presenter:

Ideza Carmela Dionglay Magpantay is a Junior High School Teacher of the Department of Education - Division of San Pablo. She finished her Bachelor in Secondary Education Major in Mathematics at Laguna State Polytechnic University San Pablo City Campus (2016) and earned her units on Master of Arts in Education Major in Mathematics at the same University. Currently, she is in the teaching profession for 8 years. She is fond of helping students learn mathematical concepts in ways that they could easily understand. Educational research and innovation is where she currently focuses her career development.



Fabrication of Battery-Operated Roof Paint Sprayer with Automatic Charging Off System

Romel B. Panis Western Philippines University

ABSTRACT

The study was fabricated at Barangay San Juan, Aborlan, Palawan, and was evaluated from April to December 2021. Fabrication of the device was based on the needs of roof painters to lessen their exposure to sunlight during roof painting. The roof paint sprayer was divided into three major parts: First, the container served as overall parts with hand carry at the top. It weighs 6 kilograms when empty but approximately 11 kilograms when it is full. Second, the direct current motor is rated 60 W, 12 V nominal, maximum flow of 5 liters per minute, and a maximum pressure of 116 psi. The base of the motor was fitted at the bottom. The hole of the first container is connected to the inflow of the motor, and a hose with an adjustable nozzle is connected to the outflow. Third, the power source consisted of a connector cord, female socket, 12V transformer, circuit board, green LED, 12Vdc battery, battery indicator, and switch. The performance evaluation of the device revealed during testing, from start, the roof paint sprayer works smoothly and sprayed almost 1/3 area of the target area (10×3 meters) for almost 2 minutes but suddenly as it sprayed, the dc motor starts difficult to run until it stops. The major benefit of the device, if studied further, will spray faster on roofs and smooth output.

Keywords: Roof paint sprayer, Paint, Motor, Battery, Container

About the presenter:

Romel B. Panis took his tertiary education at the Palawan State University – main campus, Puerto Princesa City, Palawan, and obtained his degree in Bachelor of Science in Electrical Engineering (BSEE) in 2003. In 2009, he enrolled in the long-distance learning program of Cavite State University taking up a Master of Engineering major in Electrical Engineering and completed the degree in 2014. At present, he is teaching at Western Philippines University, Barangay San Juan, Aborlan, Palawan, handling Engineering and Technology subjects. He is happily married to Dr. Eliza A. Panis. He believes that life will be meaningful if you accept failures, face challenges, welcome changes, and strive for progress.



Profiling, Patterns of Intake and Perceived Side Effects on the Use of Over-The-Counter Non-Steroidal Anti-Inflammatory Drugs

Rose Ann Z. Masa, Maria Leonora Theresa P. Rosal & Michelle T. Flores Laguna State Polytechnic University

ABSTRACT

One of the ways in which body pain can be relieved is by medications which are readily available. Over-the-counter (OTC) non-steroidal anti-inflammatory drugs are the most common for this purpose. However, OTC-NSAIDs are associated with side effects that range from mild to serious. In this context, the study aims to determine the profile of the respondents and their patterns of intake of over-the-counter (OTC) non-steroidal anti-inflammatory drugs and its perceived side effects. A descriptive type of research was utilized to profile the 90 respondents selected through purposive sampling technique. Majority of the respondents were female, with age groups are 40 and above and 40 and below and are mostly employed. The respondents' intake of the NSAIDs were according to the most frequent causes namely, headache, backache, body ache and shoulder pain. The study revealed mefenamic acid, generic 250mg as the medication taken for up to two days or after the pains eased to which the duration of intake lasted up to 6 months only, though there were respondents whose duration of intake lasted for one year or longer. Although there were side-effects such as drowsiness/sleepiness, abdominal pains due to acidity, dizziness, and mild diarrhea being experienced, most of the respondents depend on the non-steroidal anti-inflammatory drugs to relieve the pains they experienced.

Keywords: dosage, intake, NSAID, OTC, pattern, side effects

About the presenter:

Rose Ann Z. Masa is an Associate Professor II of Laguna State Polytechnic University, San Pablo City Campus. She finished a degree of Master of Arts in Education Major in Educational Management and Bachelor of Science in Nursing. A registered nurse and a licensed professional teacher with 21 years of teaching experience, and assigned mostly with science and research subjects. She is a core faculty of the Biology Department currently handling General/Human Physiology, Biochemistry and Thesis Writing. Served as Extension Unit Head of the College of Arts and Sciences for 8 years and acted as main proponents of several researches inclined towards the extension services advocacy. She acted as an undergraduate thesis adviser of Bachelor of Science in Biology students. She worked on science and health related researches with ultimate purpose of attaining optimum human conditions.



Mathematics Learning Strategies and Ability of the Students at Laguna State Polytechnic University for Academic Year 2021-2022

Arlene P. Madrio

Laguna State Polytechnic University

ABSTRACT

Mathematics is one of the main lessons that students should learn, proficiency in this field can be said to be a success if students can achieve. Some students have difficulty with it, and many say that mathematics is one of the most difficult lessons to learn. To support, this study determines the mathematics learning strategies and ability of first year college students. The use of survey-correlational method of research led in achieving the objectives of the study participated by 100 from 200 randomly selected first year college students who were officially enrolled in Laguna State Polytechnic University during the Academic Year 2021-2022. The results further showed that first year college students had "average" ability in mathematics. Mathematics ability as measured by their grade has a descriptive equivalent of "satisfactory". There were significant relationship in the mathematics ability according to mathematics learning strategies. In addition, school facilities, availability of educational materials and school conduciveness to learning are among the factors which may have also contributed to students' mathematics learning strategies and ability. Furthermore, school factors especially teachers and home factors may also contribute to students' learning ability in mathematics. The study suggests that teachers of mathematics should place more emphasis on engaging students in the task of learning, provide more opportunities for practical sessions during which students communicate in mathematics, and create a virtual/spiritual/imaginary environment in which students can engage in all aspects.

Keywords: environmental management, awareness, satisfaction, need for action

About the presenter:

Arlene P. Madrio holds a Doctor of Philosophy (Ph. D) Major in Mathematics from Philippine College of Health and Sciences, Inc. and Master of Arts (M.A.) Major in Mathematics from Laguna State Polytechnic University. She is an assistant professor IV at Laguna State Polytechnic University – San Pablo City Campus handling Mathematics subjects and Statistics. She is also the adviser of the Supreme Student Council (SSC). Her special skills include expertise in computation of Statistics in research writing and teaching different fields in Mathematics.



Understanding Contraceptive Data through Data Before and During Pandemic

Eric M. Valenzuela, Mary Joy M. Nadres, James Steven Cordero & Ruth Marie A. Tubog Dalubhasaan ng Lungsod ng Lucena

ABSTRACT

The Philippines is one of the world's fastest urbanizing countries. To provide important reproductive health services to Filipino women and their families, the Department of Health (DOH) began distributing family planning goods to regional health offices. This study was done to understand contraceptive data in Lucena City through data science. The study used descriptive and predictive analysis. The data were requested from the Philippine Statistics Authority, City Health Office of Lucena and Civil Registrar. Based on the visualization done, study suggests that the birth rate increases as the number of contraceptive dropout increases but inversely moves with the number of contraceptive users. In addition, the types of contraceptives used does not affect birth rate but the number of contraceptive users. The results of the survey suggest that contraceptives use, and nonuse is affected by childbearing and birth spacing. The study concludes that the number of contraceptive users can explain 70.08% of the birth rate and the number of dropouts can explain 67.38% of the birth rate. Contraceptive types do not affect birth rate, but the number of users do. Natural contraceptives can be used effectively in times of pandemic as it does not require someone to take pills or any medications. The study built a data staging area, in the form of a website, which can help clean, filter, visualize and predict contraceptive data. Prediction of birth rate was implemented in data staging area as this can help Lucena City manage contraceptive distribution to strategize contraceptive distribution.

Keywords: Contraceptive, Pandemic, Birth Rate, Population, Data Analytics

About the presenter:

Eric M. Valenzuela is 22 yrs old and currently studying Bachelor of Science in Information Technology in Dalubhasaan ng Lungsod ng Lucena. He lives in Brgy. Bocohan, Lucena City.



PD-DAT: A Mobile Application for Parkinson's disease Early Detection and Therapy

Maricel M. Gaspar

FAITH Colleges

ABSTRACT

Parkinson's disease (PD) is a brain condition that primarily affects the dopaminergic neurons in the substantia nigra. The symptoms of Parkinson's disease are generally developed slowly over years. Some cases have experienced significant symptoms at a very young age. PD symptoms may vary from person to person due to the diversity of the disease. Thus, there are no exact or particular symptoms of PD. The most common symptoms are tremor, bradykinesia, limb rigidity, gait, and balance problems. However, PD in general, has no standard cure, and treatment is based on the diagnosis symptoms of the patient. The doctors diagnose potential patients based on their medical history and problems and will run some tests to assess and determine if the patient has PD. Medications and treatment cost of Parkinson's disease is expensive. As mentioned above, the cause still remains unknown and cure has not been discovered yet, but treatment options are available which includes medications and surgery. In addition, Parkinson's itself is not fatal, even so, its progressive and evolving symptoms is what makes the disease threatening. This study would fill the gaps in building an app that contains a variety of tests which generally aims to predict early signs of PD and to provide therapy with the help of Neurologist and Occupational Therapist for the instrument and test validation. Unified Parkinson's disease Rating Scale (UPDRS) was utilized by the researchers in the assessment module of the application which is the standard instrument in assessing Parkinson's disease. There are 50 evaluators involved in testing the application. 26% of the evaluators are mostly teenagers ages 18-25 followed by ages 41-50 with 22%. Out of those 50 testers, the app provides four wrong diagnoses. With an 88% prototype accuracy rate, PD-DAT was able to diagnose early symptoms of PD and provides different therapies using mobile application which makes it more efficient and accessible to almost all individual.

Keywords: Mobile Application; Parkinson's disease; experts, theraphy, early detection therapy

About the presenter:

Dr. Maricel M. Gaspar is currently serving as the BSIT Program Chair at FAITH Colleges in Tanauan City, Batangas, IT project manager, certified Microsoft Professional, former PSITE Region 4A Provincial Coordinator-Batangas (2019–2020), PSITE 4A Assistant Treasurer (2020–2021) and PSITE 4A Assistant. Secretary (2021-2022). She presented several local and international research projects with the best paper awards during the IIER 2017 at Jeju Island in South Korea, and NCR PSITE International Research Competitions held in Makati, Philippines, in 2019. Data mining, image analysis, natural language processing, big data, information theory, systems analysis, agile software development, project management, cybersecurity, and the internet of everything are some of her research areas.



Scenario-Based Micro learning Strategy for Improved Basic Science Process Skills and Self-Directed Learning of Grade 6 Pupils

¹Leonardo F. Zulueta & ²Julie Fe D. Panoy

¹San Isidro Elementary School; ²Laguna State Polytechnic University San Pablo City Campus

ABSTRACT

This study determined the effectiveness of scenario-based micro learning strategy in improving the basic science process skills and self-directed learning of grade 6. Descriptive correlational and pre-test - posttest design was utilized for the study. The pretest and posttest results measures the effectiveness of the strategy in improving the basic science process skills. The survey results were correlated to identify the significant relationship between the perceived experience of the respondents on the use scenario-based micro learning strategy and their post-test scores. Likewise, the perceived experience of the respondents was correlated to their level of self-directed learning skills. The findings indicated that respondents were very satisfied in terms of their experience on the use of the strategy as to scenario construct and its alignment to learning style. They feel satisfied in terms of the content covered and form. It revealed that respondents have a very high level of planning and changing skills. The pretest and posttest showed a significant difference in all terms, except for classifying. A significant relationship was revealed between the perceived experience of the respondents on the use of the strategy and their posttest scores. Furthermore, a significant relationship was established between their perceived experience and their level of self-directed learning skills. The findings suggest that teachers may use this strategy as an alternative approach in teaching science to improve the basic science process skills and self-directed learning skills of learners.

Keywords: Scenario-Based Micro learning Strategy, Basic Science Process Skills, Self-Directed Learning, Perceived Experience

About the presenter:

Leonardo F. Zulueta is a resident of Brgy. Poblacion 2 Mulanay, Quezon, Philippines. He is a licensed professional teacher, teaching in San Isidro Elementary School as Grade 6 adviser. He is pursuing his Master's Degree in Laguna State Polytechnic University- San Pablo City Campus taking Master of Arts in Education major in Science and Technology and currently finishing his master's thesis. He is the school research coordinator whose interest are in teaching and learning subject areas, especially science, technology integration and innovation.



Importance and Use of Electrochemical Sensors for the Determination of Heavy Metals in Blood Tests

Manjola Bani Research Scholar in Chemistry, Albania

ABSTRACT

Electrochemical sensors have important and interesting applications in clinical, environmental, industrial and medicinal analysis. Mostly, electrochemical sensors based on complexes such as blood are of particular importance and development as they improve our ability to make a connection between the relationship of chemical exposure evaluation and the outcomes of diseases that may appear. Among toxic metals, lead continues to be one of the most problematic. Despite considerable efforts to identify and eliminate sources of exposure to lead, this metal remains an important health concern, especially for young children. Ongoing research focuses on the development of metal analyzers that have many advantages over current technologies available, thus potentially representing the next generation of toxic metal analyzers. The main objective in this research was the construction of a new electrochemical sensor, for the determination of vital elements and especially, for the determination of lead in blood, using as working electrode carbon based sensor unmodified and modified with copper micro-particles. This study performed the optimization and evaluation of the electroanalytical method and were demonstrated the electroanalytical capabilities of the carbon-based sensors. This type of study on sensor platform is important and is needed to measure chemical exposure as well as to make its final connection with the disease. Performing blood tests will be more accurate, simpler, easier and less costly. This versatile, accurate and extremely compact integrated sensor will bring about dramatic change in healthcare as every molecule that we monitor addresses various processes and systems of the body.

Keywords: Blood Tests, Chemical Exposure, Copper micro-particles, Electrochemical Sensor, Heavy Metals

About the presenter:

Manjola Bani graduated Chemistry in Albania. She describes herself as intelligent, with strong character and principles. She works hard, in a systematic way, with passion and dedication. For many years, she has been active in research and scientific studies in the field of chemistry and related subfields. She worked as a chemist, chemistry lecturer, trainer for teaching (physical and online) in many conferences, seminars and training courses. She authored several scientific works, served as board in many conferences and international scientific journals, speaker in many leaders' forums, won in many competitions and olympiads, and served as lecturer in many educational platforms to teach chemistry. She won first prize in the chemistry competition with participants from 50 different countries.



BikeMate: An Android App with Data Analytics for BMI Monitoring

Myra G. Flores Buenaventura Alandy National High School

ABSTRACT

Body mass index (BMI) is a way to measure the calories based on ones' weight relative to the height. It is relatively important to determine whether a cyclist is physically fit to ensure the safety while biking. Cyclists need an application that help them monitor their BMI, an application that can be used in planning a trip and finding a shortest trajectory. BikeMate is an android app that measured the body mass index of the cyclist that processed by the data analytics. Data analytics measures the quantitative process and techniques to gain and enhance productivity. The main objective of this study is to develop an android application for monitoring BMI, plan a trip, and searching for a shortest trajectory. The researcher use rapid application development in developing the said android app. As a result, it can be inferred that the developed app is functional, reliable and easy to use. From the five (5) android characteristics that were evaluated, result shows that portability and functionality got the highest rating. The system was acceptable based on the result of system testing with the weighted mean of 4.94 in terms of portability and functionality. It indicates that the ultimate achievement of this developed android application is the compatibility of the android application in the different operating system for Android phones and the computation of body mass index and directing the android application using voice navigation. This serve as the key factors that assist cyclist in their journey.

Keywords: data analytics, BikeMate, BMI, android application, google maps, bikers, cyclist

Institutional Partners

UNIVERSITI TEKNOLOGI MARA	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.
DIRENTION CONTRACTION CONTRACTICON CONTRA	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.
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ANG LUNGSOD TO SAX PAGE	Pamantasan ng Lungsod ng San Pablo is deeply committed towards the integral formation of the human person, with a profound faith in God, in his fellow men and himself by providing its students the full development of their physical, intellectual, social and cultural endowment for effective participation in various professions and industrial occupations and to enable them to enjoy reasonable quality of life to be able to contribute to the upliftment of the human society.
A CLU	Santo Tomas College of Agriculture Sciences and Technology (STCAST) is a locally governed college. An institution being run and managed by the Local Government Unit. The college is a Commission on Higher Education Institutionally Recognized and eligible for the benefits of Republic Act 10931 otherwise known as the Universal Access to Quality Tertiary Education Act. Today, STCAST is now living on its belief that education must be in the state of internationalization and borderless in nature.
PABLO COLLEGE VIEW CITY OF SAN PABO	The San Pablo Colleges is an educational institution with a Christian outlook committed to the complete development of global Filipino learners for the service of God, country and fellowmen. It envisions itself as a leading educational institution nurtures relevant responsive and value-laden lifelong learning. It is committed to uphold the holistic development of learners making them globally competitive through outcomes-based and technology-driven instruction, quality research and proactive community engagement, thereby creating sustainability for all.

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	Arabia Experience Institute Muscat, Oman
معهد الخبرة العربية arabia experience institute	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.

and Development	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
Rund Development, center Print Development, center Print Barry 2007 Centres Print Barry 2007	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.
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