



**EMILIO
AGUINALDO
COLLEGE
CAVITE**



**EACCIMRC
2024**

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**THE
EMILIO AGUINALDO COLLEGE CAVITE**

International Multidisciplinary Research Conference Proceedings



**TRANSFORMATIVE PATHWAYS
TO SUSTAINABILITY:
INNOVATIONS AND SOLUTIONS
FOR A RESILIENT FUTURE**

**DECEMBER 12, 2024
EMILIO AGUINALDO COLLEGE CAVITE**



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The Emilio Aguinaldo College Cavite International Multidisciplinary Research Conference

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ABOUT THE **CONFERENCE PROCEEDINGS**

Emilio Aguinaldo College Cavite International Multidisciplinary Research Conference is an open-access and refereed conference proceedings that's published by Emilio Aguinaldo College Cavite Research and Development Office. It's main objective is to offer significant and innovative perspectives on Innovations in Health Care, Health Care Technology and Environment (Natural and Physical Sciences, Health Care and Technology), Smart Engineering and Industrial Innovation (Computing, Automation, Engineering and Technology), Strengthening Capacities, Creative Communications, and Teaching Innovation (Education, Humanities, and Social Sciences), Emerging Sustainable and Innovative Business Solutions (Accountancy, Business, and Management), and research to a global readership.



THE EDITORIAL BOARD

Chief Editor	Dr. Rebecca D. Miranda
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	Dr. Supachai A. Basit
	Mr. Ernesto U. Guillermo, Jr.
	Ms. Aileen E. Estocado
Design/Layout Artist	Ms. Danica Anna R. Villanueva
	Ms. Chloe Jayne G. Almario



PREFACE

We are delighted to present the Proceedings of the Emilio Aguinaldo College Cavite International Multidisciplinary Research Conference 2024, with the theme "Transformative Pathways to Sustainability: Innovations and Solutions for a Resilient Future." This conference brings together professionals, academics, and researchers from across the globe to look at innovative and feasible approaches to building a resilient and sustainable future.

The abstracts collected in this volume demonstrate a broad spectrum of multidisciplinary study, demonstrating the originality and commitment of researchers who are dedicated to solving pressing global issues. From social justice and sustainable development to climate change, the contributions emphasize how important innovation and teamwork are to creating a more sustainable society.

We would like to thank the organizing committee, presenters, and all of the attendees for helping to make this conference a success. We hope that the concepts discussed here may stimulate greater investigation and group efforts to create a more sustainable and resilient future for everyone.

The Emilio Aguinaldo College Cavite Research and Development Office



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ABOUT THE CONFERENCE

T H E M E

Transformative Pathways to Sustainability:
Innovations and Solutions for a Resilient Future

O B J E C T I V E S

- To provide a platform for researchers to disseminate their research findings to a wider audience.
- To establish networks and linkages with other researchers of various institutions.
- To benchmark on the research niches of international academic communities.



MESSAGE FROM THE PRESIDENT

Dr. Jose Paulo E. Campos

I wish to congratulate the EAC Cavite Research and Development Office for organizing the 4th EAC-Cavite International Multidisciplinary Research Conference. This event, a collaborative gathering with other institutions holds an immense importance for our school as it addresses the educational challenges we are now facing especially with the ever changing academic and intellectual advancement.

The importance of research in education cannot be underestimated as it serves as a driving force and a catalyst for innovation. The symbiotic relationship between research and education continuously evolve and adapt to the changing needs of society and learners. I am glad that the EAC Cavite Research Development Office continues to explore research as an academic pursuit and a powerful tool that shapes the present and future of learning.

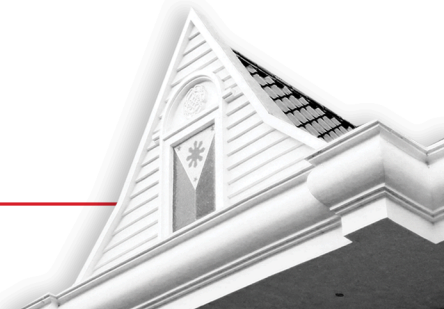
Through our engagement in research our educators were emboldened to question assumptions, explore new perspectives and continuously seek ways to improve their practice. Similarly, our students who were exposed to research were able to develop their critical and analytical capabilities, develop skills in analysing information as well as make informed decisions.

I hope that this 4th EAC Research Conference will open pathways for more community academe partnerships to increase the chance of EAC- Cavite to fuel more innovation and address societal challenges.

This research conference is vital as I believe that combining diverse expertise fosters innovative solutions. When research experts gather together, their diverse viewpoints promote rigorous analysis and validation, after all research collaborators learn from each other, consequently broadening their perspectives. The collaborative efforts between researchers and educators are crucial to acquiring new skills and expertise.

We are well-aware that educational institutions can make a significant contribution to our economy and society through research, as one of the main role of research in society involves enabling innovation. Let us continue to uncover emerging new insights in research across various disciplines to accelerate progress in addressing current societal challenges.

DR. JOSE PAULO E. CAMPOS
President, Emilio Aguinaldo College





MESSAGE FROM THE VICE PRESIDENT FOR ACADEMIC AFFAIRS

Dr. Rebecca D. Miranda

On behalf of Emilio Aguinaldo College Cavite, it is my utmost honor and privilege to welcome you all to the 4th International Multidisciplinary Research Conference, held on this momentous day, December 12, 2024.

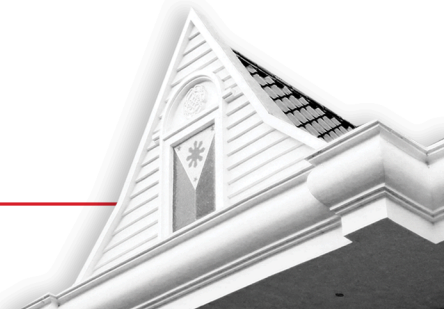
This event marks yet another significant milestone in our shared journey toward advancing knowledge and fostering collaboration across disciplines. The theme of this year's conference "Transformative Pathways to Sustainability: Innovations and Solutions for a Resilient Future" underscores the critical importance of diverse perspectives and innovative approaches in tackling the challenges of today's complex world.

I am deeply grateful to our esteemed speakers, who bring their invaluable insights and expertise to inspire and guide us. To the dedicated researchers and presenters, your groundbreaking work is a testament to the power of curiosity and determination. And to the participants and observers joining us from various educational institutions, your presence enriches this event and embodies the spirit of collaboration and unity that this conference aims to cultivate.

Over the course of this conference, we hope you will find opportunities to share knowledge, exchange ideas, and build meaningful connections that extend beyond these walls. It is through conferences like this that we strengthen our collective commitment to research excellence and contribute to a brighter future for all.

Once again, thank you for being here and for your unwavering support of this academic endeavor. Let us make this conference a truly memorable and impactful event together.

DR. REBECCA D. MIRANDA, CPA
Vice President for Academic Affairs
Emilio Aguinaldo College Cavite





MESSAGE FROM THE CONFERENCE CHAIRPERSON

Dr. Aileen D. Ybañez

Warmest Emilian Greetings!

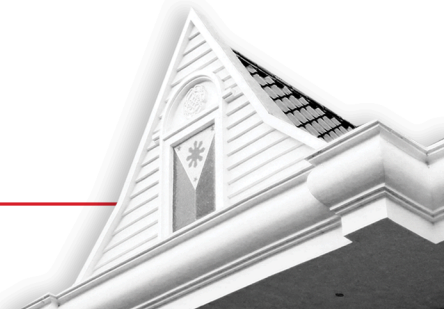
It's with great pride to chair the 4th International Multidisciplinary Research Conference with the shared purpose of each researcher to create, enhance, and innovate across the different facets of human ingenuity. Each participant explores to aspire and progress the understanding of both the known and unknown, to impart and amass knowledge that will build a foundation as a pillar of transformation and guide us towards newer heights.

In the modern world, research acts as one of the cornerstones of development, creating solutions to global challenges; regardless of its complexities, we, as researchers, have the ceaseless curiosity that acts as a catalyst for the diversification of the different facets of human capabilities. From expanding upon the healthcare systems to shaping the future through technological advancements, we have made leaps and bounds to nurture our society. Our collective capability to inspire change brought us towards a better future, what we have made, and continue to create leads us to a brighter tomorrow.

In a world where globalization is the key to continuous improvement, international collaboration is vital in the proliferation of knowledge from one community to another. Through shared experiences, methodological insights, and improved implementation of research development, will broaden our understanding and elevate the interconnection of understanding and innovation.

Let this conference be the catalyst that empowers collaborative enhancement of knowledge, as well as inspire questions that fuel our imagination, as our capacity for greatness is not only measured by our ability to create, but also by the insights that we are inspired by.

DR. AILEEN D. YBAÑEZ
Conference Chair





MESSAGE FROM THE CONFERENCE CO-CHAIRPERSON

Dr. Brandon G. Sibbaluca

Dear Esteemed Colleagues and Conference Participants,

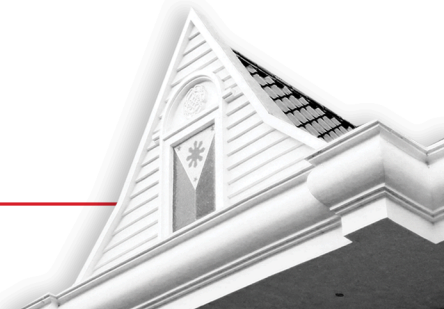
I am pleased to extend a warm welcome to you at the 4th Emilio Aguinaldo College Cavite International Multidisciplinary Research Conference on "Transformative Pathways to Sustainability: Innovations and Solutions for a Resilient Future." This conference brings together a diverse group of practitioners, researchers, and thought leaders who are all committed to promoting sustainable solutions to the global challenges.

Building a resilient future requires us to take innovative paths as we traverse the intricacies of social disparities, resource depletion, and climate change. To bring about significant change, interdisciplinary approaches and collaboration are essential, as demonstrated by the research and innovations exhibited. The work presented in these proceedings, which ranges from novel policy solutions to ground-breaking technologies, reflects our shared commitment to tackling some of the most pressing issues of our day.

I want to sincerely thank all the presenters, organizers, and attendees whose efforts have enabled this conference to take place. Developing a resilient and sustainable future depends significantly on your commitment and ability.

I look forward to the inspiring discussions and collaborations that will emerge from this conference and am confident that together, we can chart a path toward lasting sustainability for future generations. Thank you for your participation.

DR. BRANDON G. SIBBALUCA
Conference Co-Chairperson and EACC Research Director





MESSAGE FROM THE CONFERENCE CO-CHAIRPERSON

Mr. Ernesto U. Guillermo, Jr.

It is with great pride and honor to welcome everyone in our 4th EACC International Multidisciplinary Research Conference with the theme "Transformative Pathways to Sustainability: Innovations and Solutions for a Resilient Future".

While individual schools, colleges, and universities may already have their own strong research culture following their identified research agenda, gatherings like this, especially when there is an international touch, always provide doors to enrich our base knowledge in research as we get updated with trends and directions that may help us in aligning ourselves with the needed innovations and solutions to keep ourselves relevant.

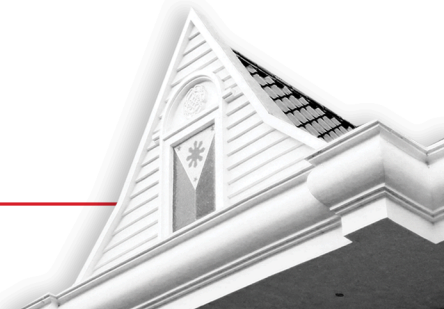
We acknowledge the research entries of various schools from different parts of the country. More than the recognition that may be won, also of great importance is that they are given the chance to be shared on an international platform at this conference. The experience enriches both the presenters and the participants in the conference.

We thank all our esteemed resource speakers, both local and international, for saying yes to our invitation so that you can share your thoughts, experiences, and insights to give flesh to our chosen theme for this year.

May this 4th EACC IMRC inspire us to pursue more researches that may bring out more innovations and solutions to the pressing concerns, needs, and problems of our time.

Virtue, Excellence, and Service!

MR. ERNESTO U. GUILLERMO, JR., LPT, MST
Conference Co-Chairperson



PROGRAM OF ACTIVITIES

DECEMBER 12, 2024

8:00AM - 5:00PM

Multipurpose Hall, 2nd Floor Building 6, Emilio Aguinaldo College Cavite

<https://bit.ly/4thEACCIMRCPlenarySession>

SCHEDULE	TOPIC/ACTIVITY	RESOURCE PERSON(S)	VENUE
7:30AM - 8:30AM	Registration	EACCIMRC 2024 Registration Committee	Multipurpose Hall
8:30AM - 8:35AM	Program Preliminaries	Mr. Ernesto U. Guillermo Jr., EAC Chorale	
8:35AM - 8:40AM	Welcome and Opening Remarks	Dr. Rebecca D. Miranda Vice President for Academic Affairs, EAC Cavite	
8:40AM - 8:45AM	Conference Message	Dr. Jose Paulo E. Campos President, Emilio Aguinaldo College	
8:45AM - 8:55AM	Intermission	EAC Chorale EACC Cultural Dance Troupe	
8:55AM - 9:00AM	Introduction of the Keynote Speaker	Dr. Supachai A. Basit Dean, School of Medical Technology, EACC	
9:00AM - 9:45AM	Message of the Keynote Speaker Innovative Solutions in Research for Food Safety and Resilience	Prof. Dr. Diana Elizabeth Waturangi Professor, Department of Biotechnology, Atma Jaya Catholic University of Indonesia	
9:45AM - 10:00AM	HEALTH BREAK		
10:00AM - 10:05AM	Introduction of the Plenary Speaker	Dr. Veronica S. Garcia Dean, School of Dental Medicine, EACC	
10:05AM - 10:40AM	Plenary Session 1 Topic: Social Equity and Sustainability	Dr. Donnavila Marie B. Panday Director, Research Innovation, Extension and Community Outreach, University of Baguio	
10:40AM - 10:45AM	Conference Announcements	Mr. Ernesto U. Guillermo, Jr. EACCIMRC 2024 Co-Chairperson	

DR. CARL MARK B. MINIANO
Master of Ceremonies

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PROGRAM OF ACTIVITIES

DECEMBER 12, 2024

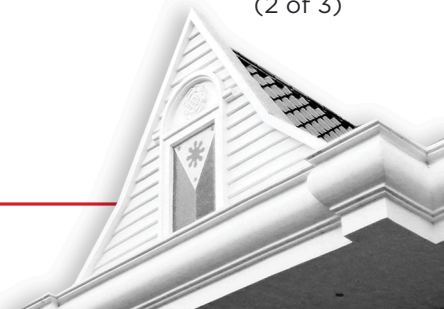
8:00AM - 5:00PM

Multipurpose Hall, 2nd Floor Building 6, Emilio Aguinaldo College Cavite

<https://bit.ly/4thEACCIMRCPlenarySession>

SCHEDULE	TOPIC/ACTIVITY	RESOURCE PERSON(S)	VENUE
10:45AM - 12:00PM	Morning Breakout Parallel Sessions (See Pages 15-19)		
	Innovations in Health Care, Health Care Technology and Environment	Professional	Lecture Hall 1, Building 7
	Strengthening Capacities, Creative Communications and Teaching Innovation	Professional	Lecture Hall 2, Building 7
	Smart Engineering and Industrial Innovation / Emerging Sustainable and Innovative Business Solutions	Professional	Multipurpose Hall, 2nd Floor Building 6
	Innovations in Health Care, Health Care Technology and Environment / Strengthening Capacities, Creative Communications and Teaching Innovation	Student	Rm. 7208, 2nd Floor Building 7
12:00PM - 1:30PM	LUNCH BREAK		Multipurpose Hall
1:30PM - 3:30PM	Afternoon Breakout Parallel Sessions (See Pages 15-19)		
	Innovations in Health Care, Health Care Technology and Environment	Professional	Lecture Hall 1, Building 7
	Strengthening Capacities, Creative Communications and Teaching Innovation	Professional	Lecture Hall 2, Building 7
	Smart Engineering and Industrial Innovation / Emerging Sustainable and Innovative Business Solutions	Professional	Multipurpose Hall, 2nd Floor Building 6
	Innovations in Health Care, Health Care Technology and Environment / Strengthening Capacities, Creative Communications and Teaching Innovation	Student	Rm. 7208, 2nd Floor Building 7

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DR. CARL MARK B. MINIANO
Master of Ceremonies


PROGRAM OF ACTIVITIES

DECEMBER 12, 2024

8:00AM - 5:00PM

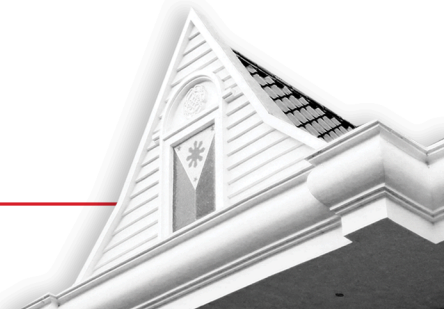
Multipurpose Hall, Building 6, Emilio Aguinaldo College Cavite

<https://bit.ly/4thEACCIMRCPlenarySession>

SCHEDULE	TOPIC/ACTIVITY	RESOURCE PERSON(S)	VENUE
3:30PM - 3:35PM	Introduction of the Plenary Speaker	Dr. Alma O. Viloría Director, Center for Academic Assessment and Analytics / Head, Online Learning and Teaching Department	Multipurpose Hall
3:35PM - 4:05PM	Plenary Session 2 Transformative Impact of Artificial Intelligence in Research and in Higher Education	Dr. Supachai A. Basit Dean, School of Medical Technology, Emilio Aguinaldo College Cavite, Philippines	
4:05PM - 4:20PM	OPEN FORUM		
4:20PM - 4:30PM	Awarding of Certificates of Presentation	All presenters	
4:30PM - 4:45PM	Awarding of Winners <ul style="list-style-type: none">• Best Paper (1st, 2nd, 3rd)• Best Poster (1st, 2nd, 3rd)• Best Podium Presenter (1st, 2nd, 3rd)	Dr. Aileen D. Ybañez EACCIMRC 2024 Conference Chairperson Dr. Brandon G. Sibbaluca Mr. Ernesto U. Guillermo, Jr. EACCIMRC 2024 Conference Co-Chairpersons	
4:45PM - 4:50PM	Closing Remarks	Dr. Aileen D. Ybañez EACCIMRC 2024 Conference Chair	
4:50PM - 4:55PM	Closing Prayer	Dr. Veronica S. Garcia EACCIMRC 2024 Committee Chair	
4:55PM - 5:00PM	PHOTO OPPORTUNITIES		

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DR. CARL MARK B. MINIANO
Master of Ceremonies





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**BIONOTE OF THE SPEAKERS
PARALLEL SESSIONS
POSTER PRESENTATION**



BIONOTE OF THE SPEAKER

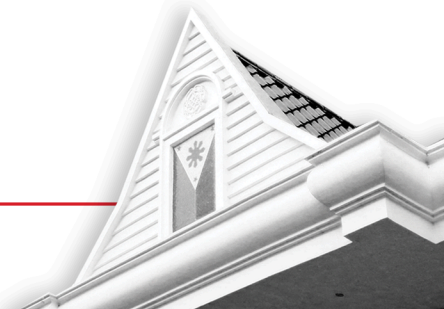
Prof. Dr. Diana Elizabeth Waturangi

Keynote Speaker (Jakarta, Indonesia)

Diana Elizabeth Waturangi, Ph.D., is a professor in microbiology, with research interest emphasis in food microbiology, at Atma Jaya Catholic University in Jakarta, Indonesia. She received her Doctoral degree from IPB University through Sandwich Program at Institut für Tierzucht, Bundesforschungsanstalt für Landwirtschaft (FAL), Germany. She became a postdoctoral fellow at the University of Texas Houston Medical Center, USA. She was appointed as the Dean of Biotechnology Faculty at Atma Jaya Catholic University (2010–2017).

She was also appointed as the American Society for Microbiology (ASM) country ambassador for Indonesia in 2016–2021 and from 2021 acting as the ASM International council. She is one of the expert panels of The Indonesian Food and Drug Authority (BPOM-Ri) and country ambassador for General Harmonization Initiatives for Food Safety Regulation. She also member of Academy of Food and Nutrition Sciences Indonesian Academy of Sciences.

She published her research on various reputable international journals and had written books and book chapter on biofilm and bacteriophage. Her research emphasized the application of antibiofilm and bacteriophage to control food spoilage bacteria, foodborne, aquaculture pathogens and their biofilms. She awarded awards and research grants from Bill and Melinda Gates Foundation; International Society for Infectious Diseases; International Foundation for Science; Global Bacteria Forum; and World Society Pediatric for Infectious Diseases. In 2024 she received science and technology award from Indonesia Toray Science Foundation.





BIONOTE OF THE SPEAKER

Dr. Donnavila Marie B. Panday

Plenary Speaker 2 (Baguio City, Philippines)

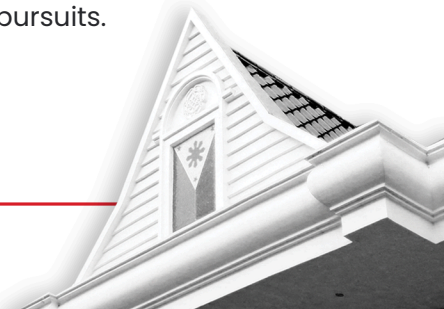
Donnavila Marie B. Panday is a dedicated professional with a strong background in education, research, and community development. She currently serves in the Director of Research Innovation Extension and Community Outreach (RIECO) at the University of Baguio, where she spearheads programs aimed at fostering sustainable development through literacy, peace and justice, infrastructure, livelihood, and health initiatives.

In her pursuit of quality education, she has achieved a distinguished academic background, earning a Bachelor of Arts in Political Science, a Master's in Public Administration, a Doctor of Philosophy in Development Education, and a Juris Doctor degree. She is currently furthering her expertise by pursuing a Doctorate in Public Administration with a specialization in Economic Development.

In her academic endeavors, Donnavila teaches master's and doctorate students, focusing on Public Administration, Public Policy, Advanced Philosophy, Ethics, and Legal Bases of Education in the Philippines. She is committed to aligning her courses with the principles of internationalization and professional accountability, encouraging learners to engage in innovative and complex research.

Donnavila is also an ISO internal auditor, leading teams to ensure compliance with quality standards. Her leadership in auditing top management highlights her ability to assess and address organizational needs effectively.

Beyond academics, she is actively improving the vision and mission of the University of Baguio's Technology Business Incubator (TBI) Center, focusing on tourism while welcoming diverse projects. Her holistic approach bridges theoretical knowledge and practical applications, contributing to both institutional growth and community empowerment. A passionate advocate for education and social transformation, Donnavila embodies the ideals of lifelong learning and meaningful engagement in her professional and personal pursuits.





BIONOTE OF THE SPEAKER

Dr. Supachai A. Basit

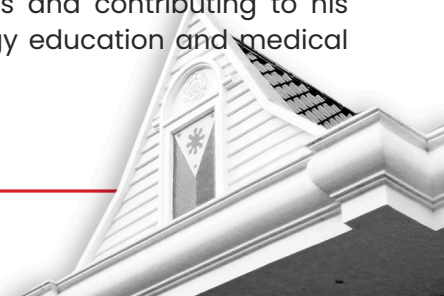
Plenary Speaker 1 (City of Dasmariñas, Philippines)

Dr. Supachai A. Basit is a highly accomplished academic leader, educator, and researcher with over 28 years of service in the fields of medical technology, microbiology, and science education. He currently holds the position of Founding Dean of the School of Medical Technology and former Director for Research and Development. Dr. Basit also serves as a Professorial Lecturer at institutions such as the University of Santo Tomas and Centro Escolar University. He was the past national president of Philippine Society for Microbiology.

He holds a Ph.D. in Science Education (major in Biology) from De La Salle University in Manila where he received Outstanding Dissertation, Master of Science in Medical Technology from Philippine Women's University, and a Master's in Biology Education from the University of Santo Tomas. In 2022, Dr. Basit completed the post-graduate training in the Community College Administrator Program at Florida State University, furthering his expertise in educational leadership and administration.

Dr. Basit has received numerous prestigious awards, including the Crisanto Almario Memorial Award for Research in 2011 given by the Philippine Association of Medical Technologists (PAMET), Outstanding Professional of the Year in Medical Technology (2017) from the Professional Regulation Commission and the Most Outstanding Medical Technologist (2017) given also by PAMET. He was also awarded the International Leadership Grant for Microbiology Educators (2015) by the American Society for Microbiology, among other honors for his excellence in teaching, research, and community service. He was recently awarded as one of the outstanding medical technologists diamond honorees during the 60th Diamond PAMET Convention.

A prolific researcher, Dr. Basit has made significant contributions to health sciences, particularly in microbiology and bacteriophage research. He has led numerous national and international research projects and published extensively in peer-reviewed journals. His work has been presented at both local and global conferences, enhancing his collaborations with international organizations and contributing to his recognition as a leading figure in microbiology education and medical technology.







PARALLEL SESSION 1 | PROFESSIONAL CATEGORY
Lecture Hall 1, Building 7 | bit.ly/4thEACCIMRCParallelSession1
**Innovations in Health Care,
 Health Care Technology and Environment**

TIME	RESEARCH TITLE	AUTHOR(S)
10:45AM – 11:00AM	Leveraging Molecular Techniques to Assess the Microbiological Quality of Water in Commercial Establishments	<u>Dennis E. Salcedo</u> Ferryvic S. Mercado Supachai A. Basit <small>School of Medical Technology, Emilio Aguinaldo College Cavite</small>
11:00AM – 11:15AM	Discrimination Among Healthcare Professionals During COVID-19 Crisis: A Phenomenological Study	<u>Marjorie Fay P. Sta. Maria,</u> Glenn A. Guira <small>De la Salle Medical and Health Sciences ; DepEd Ilocos Sur</small>
11:15AM – 11:30AM	Physicochemical And Microbial Analysis of Refrigerated and Unrefrigerated Raw Bovine Milk Using Leavening Agents at Different Time Intervals	<u>April Rose B. Carasca</u> <small>School of Agriculture, Forestry, and Environmental Studies, J.H. Cerilles State College</small>
11:30AM – 11:45AM	Prevalence of Frequently Consulted Disease by Students and Employees in a Private University in General Trias, Cavite for Academic Year 2022-2023: Basis for Improved Health Services	<u>Angelique N. Pastrana</u> Liesel Sabucdalao Victoria Talamayan <small>Lyceum of the Philippines University – Cavite</small>
11:45AM – 12:00PM	Efficacy of Teasing and Thin Sectioning Methods on Nucleic Acid and Protein Recovery from Formalin-Fixed Paraffin-Embedded Tissue Blocks	<u>Supachai A. Basit</u> Dennis E. Salcedo <small>School of Medical Technology, Emilio Aguinaldo College Cavite</small>
12:00PM – 1:30 PM	LUNCH BREAK	
1:30PM – 1:45 PM	Sustainability of <i>Trichoderma spp.</i> Cultured in Food Scraps-Based Alternative Media for Biological Control and Fertilizers	<u>Bravo, N.,</u> Arroyo, L. J. M., G. Ujano, W., Canlas, M., Torrenuev ,B., Dellosa, S., Coluso Z. M., Pajaron J. Su, R., & Uy H. G. <small>National University – Mall of Asia, Pasay City De La Salle University – Manila, Manila City Saint Jude Catholic School – Manila City</small>
1:45PM – 2:00 PM	Perception of Vegetable Farmers on the use of Pesticide in Selected Barangays of Claveria, Misamis Oriental	<u>Lanelyn B. Nillas</u> <small>J.H. Cerilles State College</small>
2:00PM – 2:15 PM	Effects of Varying Concentrations of Beneficial Heavy Metals on Shoot Length in <i>Allium sativum</i> L. Grown in Hydroponic Systems	<u>Canlas, M.N.,</u> Arroyo, L.J.M., Bravo, N., Dellona, S., Torrenueva, B., & Ujano, W. <small>De La Salle University ; National University Mall of Asia</small>
2:15PM – 2:30 PM	Bayesian Insights into History of Vaccination, COVID-19 Infection, and Disease Severity in Post-Pandemic Antigen-Negative Cohorts	<u>Angelo Christian De Guzman</u> Keisha Faith Gallo Supachai A. Basit <small>School of Medical Technology, Emilio Aguinaldo College Cavite</small>

Moderator: Ms. Elena Mercado

Technical Assistant: Mr. Roy Ivan De Los Reyes





PARALLEL SESSION 2 | PROFESSIONAL CATEGORY

Lecture Hall 2, Building 7 | bit.ly/4thEACCIMRCParallelSession2

Strengthening Capacities, Creative Communications and Teaching Innovation

TIME	RESEARCH TITLE	AUTHOR(S)
10:45AM - 11:00AM	Ready for a Theology of the Mind? — Faith Response to the Mental Health Crisis	<u>Ramil R. Marcos</u> Emilio Aguinaldo College Cavite
11:00AM - 11:15AM	Contextualized Laboratory Manual in Earth and Life Science: Its Influence on the Academic Performance of Grade 12 Learners	<u>Delfin G. Valdez</u> Sta. Isabel National High School
11:15AM - 11:30AM	Amazing Learners' Group: A Case Study (Development of Theory of Collaborative Culture)	<u>Diosmar O. Fernandez</u> School of Education, Emilio Aguinaldo College Cavite
11:30AM - 11:45AM	What Crisis and Precarity Teach Us: Online Teaching Experiences Among Literature Teachers Amid the Pandemic	<u>Arielle Fiona T. Aliwalas</u> School of Arts and Sciences ; National University
11:45AM - 12:00PM	Learning Preferences and Student Engagement in Blended Learning at a College of Architectural Technology	Li Jianxin <u>Dave E. Marcial</u> Sichuan College of Architectural Technology, China Silliman University
12:00PM - 1:30 PM	LUNCH BREAK	
1:30PM - 1:45 PM	Implementation of the Strategic Performance Management System (SPMS) in One State University	<u>Rolando R. Cruzada, Jr.</u> College of Arts and Sciences, Laguna State Polytechnic University, Siniloan Campus
1:45PM - 2:00 PM	Crisis Proofing Strategies of School Administrators for Learning Continuity During the Coronacene Education towards Framework	<u>Larry F. Cajelo</u> Luis Y. Ferrer, Jr. North National High School University of Perpetual Help System - Dalta
2:00PM - 2:15 PM	An Analysis of the Disaster Management Program of Selected Higher Education Institutions (HEIs) in Cavite, Philippines: Towards the Development of A Disaster Risk Reduction Management Model For Schools	<u>Leon L. Fojas</u> College of Nursing De La Salle Medical and Health Sciences Institute
2:15PM - 2:30 PM	Online Distance Learning: Clinicians' Attitude during the COVID-19 Pandemic in the University of Baguio	<u>Edgar Allan S. Pangisban</u> School of Dentistry, University of Baguio
2:30PM - 2:45PM	The Relationship Between Socioeconomic Status Dimensions and Academic Anxiety of Filipino College Students	<u>Marypaul Louise S. Apolonio</u> Philippine Normal University-Manila

Moderator: Mr. Ernesto U. Guillermo, Jr.

Technical Assistant: Mr. Bryan M. Miralles



PARALLEL SESSION 3 | PROFESSIONAL CATEGORY

Multipurpose Hall, 2nd Floor Building 6

bit.ly/4thEACCIMRCParallelSession3



**Smart Engineering and
Industrial Innovation**

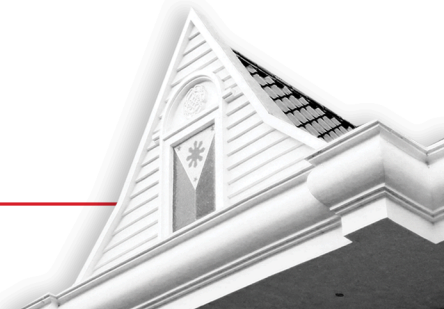


**Emerging Sustainable and
Innovative Business Solutions**

TIME	RESEARCH TITLE	AUTHOR(S)
10:45AM – 11:00AM	The Status of the Implementation of Flight Simulator Training in One Aviation Institution in the Philippines	Lina M. Constante, <u>Ethel Reyes-Chua</u> , Juncen Gardose, & Philippe Andrew Cristino <small>Air Link International Aviation College</small>
11:00AM – 11:15AM	The Influence of Taxation Understanding, Accounting Information Technology and E-filing Utilization on Taxpayers' Compliance (A Case Study of MSME Taxpayers' Registered at KPP Pratama Yogyakarta)	<u>Sri Ayem</u> , Nur Anita Chandra Putry, Umi Wahidah, & Yasminia Eka Rahmadani <small>Accounting Study Program, Sarjanawiyata Tamansiswa University, Yogyakarta, Indonesia</small>
11:15AM – 11:30AM	From Knowledge to Action: A Study on the Impact of Financial Education, Literacy, Behavior, and Decisions	<u>Edgar L. Chang</u> , Joanna Marie L. Bernardo, Jessa Mae C. Cabal, Allen Gabriel N. Pantaleon, & Vien Clarence F. Sioson <small>Dr. Yanga Colleges</small>
11:30AM – 11:45AM	Import Duty Policy and Value Added Tax Increase on K-pop Merchandise Buying Interest with Tax Understanding as A Moderating Variable	Suyanto, <u>Tifenia Ananda Sandhi Eriska</u> , & Fuadhillah Kirana Putri <small>Accounting Study Program, Sarjanawiyata Tamansiswa University, Yogyakarta, Indonesia</small>
11:45AM – 12:00PM	The Use of Artificial Intelligence in one Aviation Institution in the Philippines	Gomeriano V. Amurao, Lina M. Constante, <u>Ethel Reyes-Chua</u> , Jhennie Villar, Hazel Irish Pagulayan, & Erielyn Reyes <small>Air Link International Aviation College</small>
12:00PM – 1:30 PM	LUNCH BREAK	

Moderator: Dr. Ernell Gutierrez

Technical Assistant: Mr. Arvin T. Nolasco



PARALLEL SESSION 4 | STUDENT CATEGORY

Rm. 7208, 2nd Floor Building 7

bit.ly/4thEACCIMRCParallelSession4



**Innovations in Health Care,
Health Care Technology and
Environment**

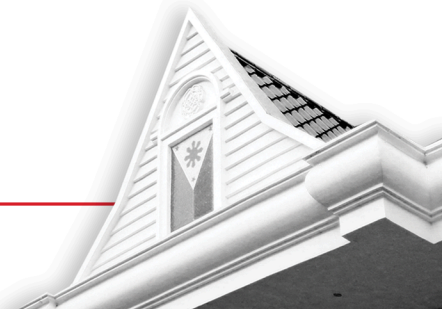


**Strengthening Capacities,
Creative Communications
and Teaching Innovation**

TIME	RESEARCH TITLE	AUTHOR(S)
10:45AM – 11:15AM	ASSEMBLY OF THE PRESENTERS	
11:15AM – 11:30AM	Impostor Syndrome and Academic Performance Among Nursing Students in a Private Higher Institution	Ace Marc Francois C. Marcelo, Napa, John Andrei S., <u>Justine Faith A. Oledan</u> , Charise Vivien D. Reyes, Ira Alexandra A. Suicon, Sachi Daniella E. Tatoy, Maureen Elizabeth P. Tuliao, Ayumi L. Volante, & Veancy F. Wang Emilio Aguinaldo College-Manila
11:30AM – 11:45AM	A Structural Equation Model on Nursing Students Research Competency and Utilization of Evidence-Based Practice (EBP)	<u>Joergette Mae D. De Guzman</u> , Lara Jane G. Calpo, Richmond Kyle G. Curameng, Bryan Jason R. Espinosa, Danielle Jane T. Magbanua, Mariana A. Marasigan, Vernice Faye M. Ortega, Katrina Cassandra R. Reyes, & Cherry Mae T. Tañedo Marian School of Nursing, Emilio Aguinaldo College-Manila
11:45AM – 12:00PM	The Impact of Calcium Initiative (Ca-In) Program on Parental Compliance: A Quasi-experimental Study	<u>Elijah Arvhin M. Mendoza</u> , Mikee Nathalie R. De Los Santos, Alyssa Ricci B. Domingo, Gail Michelle F. Erese, Andrea L. Maungca, Arielle Ann A. Ortuoste, Safiya M. Ouabed, Frances Diamond M. Pineda, Amber Jane M. Riel, & Jermaine C. Sivilla Marian School of Nursing, Emilio Aguinaldo College-Manila
12:00PM – 1:30 PM	LUNCH BREAK	
1:30PM – 1:45 PM	Family-Related Factors Contributing to the Dental Fear and Anxiety of Grade 6 Pupils in Bakakeng Elementary School	<u>Jesse Jericho E. Go</u> , Blessie Glaze L. Camacho, Diah Erika D. Guanzon, Frency May B. Nazul, Gia Isabel D. Nepomuceno, Elisa Bianca Tagudar, Jairus D. Villa Agustin, Maria Lourdes E. Cantor, & Irish Anthony G. Mascareñas School of Dentistry, University of Baguio
1:45PM – 2:00 PM	Stability Testing of Complete Blood Count Parameters Using Pentra ES 60 Analyzer	Sophia Marie M. Cortez, <u>Jovelle Marie D. Aguas</u> , Sofia Ysabel R. Jonson, Janelle Francesca A. Leh, Mark Phillip G. Turingan, Kirsten Folen L. Wallat, Andrea Isabel W. Yap, & Mark Raymund G. Nava Department of Medical Technology - Faculty of Pharmacy, University of Santo Tomas

Moderator: Dr. Dennis Salcedo

Technical Assistant: Mr. Joven A. Millares; Mr. Jose Kevin G. Ebit



PARALLEL SESSION 4 | STUDENT CATEGORY

Rm. 7208, 2nd Floor Building 7

bit.ly/4thEACCIMRCParallelSession4



**Innovations in Health Care,
Health Care Technology and
Environment**



**Strengthening Capacities,
Creative Communications
and Teaching Innovation**

TIME	RESEARCH TITLE	AUTHOR(S)
2:00PM - 2:15 PM	Use of Audio-Visual Aids as an Assessment Tool for Dental Fear and Anxiety Among 8-12 y/o Children	<u>Beatricia G. Navor</u> , Alyka Jade D. Salida, Andrea Kay DL. Bantigue, Arwin Rel T. Nucup, John Bernard B. Tavermin, Kristine Marlie P. Galang, Nicole Kate S. Paray, Remy Mae Q. Zalun, Ronella Eden T. Navarro, Maria Lourdes E. Cantor, & Irish Anthony G. Mascareñas <small>School of Dentistry, University of Baguio</small>
2:15PM - 2:30 PM	Perceptions On the Delivery of Oral Healthcare Services of Local Government Units in Fifteen District Health Centers of Baguio City	Hyssel Joyce M. Barcena, Felice Ann M. Dela Paz, Krisha Jane M. Galang, Demi Loiese C. Labawig, <u>Caila R. Lopez</u> , Michelle Joy L. Poj-agan, & Chloe Kleitz D. Tumacadang <small>School of Dentistry, University of Baguio</small>
2:30PM - 2:45PM	Risk Behaviour and Hepatitis B Case Analysis Among Persons Deprived of Liberty (PDLs) Situated Inside a City Jail – Male Dormitory	<u>France Liezbeth C. De Villa</u> , Hazel Ann Escanilla, <u>Yden Gabriel B. Fernandez</u> , & Ali Garino <small>School of Nursing, Emilio Aguinaldo College Cavite</small>
2:45PM - 3:00PM	Perceptions of Dentistry Clinicians who have Undergone the Flexible Learning Approach on their Skills in Handling Actual Patients	<u>Loise Ann Karla A. Lao</u> , Aerae A. Andres, Czyrheeze G. Binwag, Khim Melody D. Chan, Joana Kaye T. Cordero, Krizzia Anne G. Dasig Troy Kristoffer G. Jara, Vanessa Caryl O. Marcos, Maria Lourdes E. Cantor, & Antonio Fernandez Jr. <small>School of Dentistry, University of Baguio</small>
3:00PM - 3:15PM	Oral Health Risk Awareness of People Practicing Betel Nut Chewing In Sitio-5, Tadiangan, Tuba, Benguet	<u>Joi Mari Angelique A. Mina</u> , Audrey Dhane S. Abad, Claire A. Babkeg, Jurdelyn K. Caga, Yvonne Baban M. Lingayo, Marina L. Mariano, Rhealyn P. Mek-eng, Prencess Jeresa P. Puyongan, Arthuro L. Baday, & Maria Lourdes E. Cantor <small>School of Dentistry, University of Baguio</small>
3:15PM - 3:30PM	Budgeting and Spending Habits Among Third-Year and Fourth-Year Dentistry Students of the University of Baguio	<u>Jesmin D. Geronda</u> , Jaimelyn Fe A. Martinez, Zyra L. Apolonio, Erica R. Baking, Dahanna Jasmine M. Joson, Philip Louis B. Policarpio, Kirsten Anne O. Ramiscal, & Christine Marie F. Rillera <small>School of Dentistry, University of Baguio</small>

Moderator: Dr. Dennis Salcedo

Technical Assistant: Mr. Joven A. Millares; Mr. Jose Kevin G. Ebit



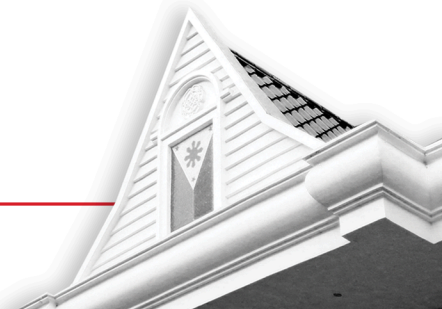




Posters

Displayed at the Bulwagang Gen. Emilio F. Aguinaldo, 2nd Floor Building 1, Emilio Aguinaldo College Cavite, Philippines

	RESEARCH TITLE	AUTHOR(S)
1	The Influence of P-Pop Clothing Aesthetics on the Fashion Choices of Accountancy, Business, and Management Students of Emilio Aguinaldo College Cavite	Lanz Miguel L. Rodaje
2	Exploring The Impact of Green Space Exposure on the Self-Reported Topic Comprehension of Grade 12 Science, Technology, Engineering, & Mathematics	Marjorie Kim A. Ching
3	The Effectiveness of Shopee's Rewards System on the Consumers' Purchasing Power of Grade 12 Accountancy, Business, and Management Students of Emilio Aguinaldo College Cavite	Rhinoa Enna B. Jumayag
4	Effects of Game-Based Learning on Alleviating Mathematics Anxiety and Propagating Mathematics Scores of Science, Technology, Engineering, and Mathematics Students of Emilio Aguinaldo College Cavite	Kyla T. Bulos
5	Analyzing Modern Feminism: The Empowering Impact of Social Media Trends on the Feminist Consciousness of Grade 12 Humanities and Social Sciences Students	Nathan Kristopher M. Magdasoc
6	The Impact of Tiktok Trend-Based Promotion of Product Attributes and Branding on the Purchase Behavior of Grade 12 Accountancy, Business, and Management Students at Emilio Aguinaldo College Cavite	Kirsten Mae I. Saulog
7	A Cross-Sectional Analysis of Green Space Availability and its Impact on the Academic Drive and Performance of Grade 12 STEM Students at Emilio Aguinaldo College Cavite	Earl Julien C. Salvacion
8	Carbon Footprint of Students' Commuting Choices: Assessing The Environmental Impact of Public and Private Transportation Utilized By Grade 12 Senior High School STEM Students at Emilio Aguinaldo College Cavite	Geoffrey Rod R. Mangohig
9	The Impact of Utilizing Different Applications for Lesson Presentation on the Academic Performance Of Grade 12 Humanities And Social Sciences Students	Mariah Kaye S. Quillao
10	Relationship Between STEM Extracurricular Involvement and Career Choices Related to Science and Engineering Among Grade 12 Science, Technology, Engineering, and Mathematics Students at Emilio Aguinaldo College Cavite	Kaizzela Gale A. Palapar
11	The Effectiveness of TikTok and Television in Information Consumption Among Grade 11 Humanities and Social Sciences Students	Ryan Casidee G. Jaganathan
12	Influence of Classroom Environment on Class Concentration of Grade 12 Humanities And Social Sciences	Joaquin H. Abuan
13	The Correlation Between Environmental Consciousness and Purchasing Behaviour Among Senior High School Students of Emilio Aguinaldo College Cavite	Jashley Allysa Q. Vinson





Posters

Displayed at the Bulwagang Gen. Emilio F. Aguinaldo,
2nd Floor Building 1, Emilio Aguinaldo College Cavite, Philippines

	RESEARCH TITLE	AUTHOR(S)
14	The Efficacy Between Virtual Laboratory Simulation and Traditional Laboratory Engagement, Motivation, and Learning Experiences of Science, Technology, Engineering and Mathematics Students at Emilio Aguinaldo College Cavite	Shekinah Faith M. Martinez
15	The Impact of Fear of Failure on Students' Motivation in Science Technology Engineering and Mathematics at Emilio Aguinaldo College Cavite	Loyddazzle G. Tandoc
16	Unlocking Study Codes: The Effectiveness of Leitner System, Cornell Method, and Spaced Repetition as Study Habits for Learning Success Among Grade 12 Student in Science, Technology, Engineering, and Mathematics at Emilio Aguinaldo College Cavite	Mariane S. De La Calzada
17	A Descriptive Analysis of Patient Satisfaction in Selected Public and Private Hospitals in Dasmariñas, Cavite	Mitch Lhianne T. Perolino
18	The Relationship Between Student's Awareness and Practice of Plastic Waste Management	Shalom F. Sepulvida
19	The Correlation Between Reading Habits and Communication Skills of Grade 12 Humanities and Social Sciences Students	Rockzel Zawn S. Malinao
20	The Relationship Between Perceived University Prestige and STEM Strand Selection: A Quantitative Study of Grade 10 Students at Dasmariñas Integrated High School	Xean Richard Yuan R. Regala
21	The Effects of Monthly Allowances on the Savings and Spending Habits of Accountancy, Business and Management Students of Emilio Aguinaldo College Cavite	Gabbrielle Trixie B. Cinco
22	Analyzing The Impact Of Sleep Deprivation On Classroom Behavior, Memory And Retention Of Grade 12 Science, Technology, Engineering And Mathematic Students Of Emilio Aguinaldo College Cavite	Marielle Antoinette S. Agustin
23	Analysis of Adequate Sleep Quality - Diet, Genetics, and Environment: An Evidence from Emilio Aguinaldo College Cavite	Zeth Nikolai P. Ausejo
24	The Relationship Between Labster Simulation and Academic Achievement of Grade 11 STEM Students in General Biology 1 at Emilio Aguinaldo College Cavite	Diana Faye O. Molina
25	Understanding Academic Adjustments and Culture Shock: A Quantitative Analysis of Second-Year College Students' Transition from Senior High School at Emilio Aguinaldo College Cavite	Stanley James Delos Reyes





Posters

Displayed at the Bulwagang Gen. Emilio F. Aguinaldo,
2nd Floor Building 1, Emilio Aguinaldo College Cavite, Philippines

	RESEARCH TITLE	AUTHOR(S)
26	Evaluating The Impact of Blended Learning Solutions on Stem Senior High School Students in Addressing Classroom Shortages at Emilio Aguinaldo College-Cavite	Maria Isabella A. Romanes
27	Analysis Of the Correlation Between Educational Attainment of Parents and Career Choices of The Selected Medical Students of Emilio Aguinaldo College-Cavite	Rue Airish C. San Buenaventura
28	The Impact of Artificial Intelligence on Nursing Education: Analysis of Nursing Students' Attitude, Learning, And Practicum	Alexa Marie S. Mijares
29	Examination Of Chronotype Moderates: The Effects of Academic Workloads on Sleep Quality Among Grade 12 Science, Technology, Engineering, and Mathematics Students at Emilio Aguinaldo College - Cavite	Kenshin V. Dain
30	Identifying The Effectiveness of Frequent Engagement with English Literature on English Language Proficiency of Grade Twelve Students in Information Communications and Technology at Emilio Aguinaldo College-Cavite	Cedrienne B. Villanueva
31	Slang Surge: How Generation Z's Language Trend Affects Academic Writing of Grade 12 Information and Communication Technology Students at Emilio Aguinaldo College Cavite	Charles Dainiel P. Garcia
32	The Impact of School Work on The Hours of Rest Among Grade 11 Information and Communication Technology at Emilio Aguinaldo College-Cavite	Franz Matthew R. Quintenta
33	The Effects of Smartbook Accounting Training in The Bookkeeping Skills of Grade 12 Accountancy, Business and Management Students in Emilio Aguinaldo College Cavite	Aubrey M. Discarga
34	The Relationship Between Environmental Awareness and Environmental Practices of the Selected Grade 12 Humanities and Social Sciences Students	Ariel G. Travilla II
35	Exploring The Impact of Digital Detox on Cognitive Function Among 12th Grade Stem Students at Emilio Aguinaldo College-Cavite	April-Ann Abarracoso
36	Impact of Academic Stress on Eating Habits: A Comparative Study Between Male and Female in Science, Technology, Engineering, and Mathematics Students at Emilio Aguinaldo College-Cavite	Jahziel Anne D. Losa
37	The Ethical Compass: Correlating Ethical Competency with Nursing Care Quality Among Clinical Practice Nursing Students at Emilio Aguinaldo College - Cavite	Leigh Adreinne G. Gahallon

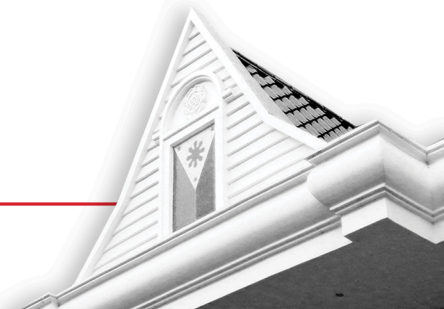




Posters

Displayed at the Bulwagang Gen. Emilio F. Aguinaldo,
 2nd Floor Building 1, Emilio Aguinaldo College Cavite, Philippines

	RESEARCH TITLE	AUTHOR(S)
38	The Relationship Between the Social Media Usage and the Technical Abilities of the Selected Grade 12 TVL ICT Students of Emilio Aguinaldo College-Cavite	Charisma Averion
39	UNSPOKEN CODE: Exploring Academic Integrity Towards Utilization of Chat-GPT	Ezeckel James Polido
40	Acceptability of locally made perfume and the learners' purchase motivation	Gessebrelle Calambo
41	Artificial Intelligence (AI) Utilization and Perceived Writing Competence of Humanities and Social Sciences (HUMSS) Students	Shawna Pallado
42	Exploring the Relationship Between the Awareness and Application of Solid Waste Management through Reduce, Reuse, and Recycle of Selected Grade 12 SHS students at IHMC-P: A Basis for an Environmental Action Plan	Kelli Fidelis Alabat Jenica Rhiane Graycochea Charisse Dela Peña
43	Academic Behaviors and Motivation As Correlates of HUMSS Students College Readiness	Crislyn Jugan
44	Pamilya o Bansa? The Level of Loneliness Amongst the Army Troops Assigned in the 8th Infantry Division	Glessamae Gonzales



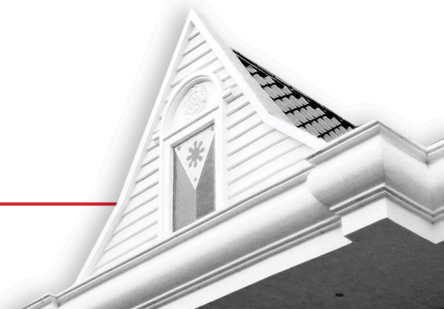


ABSTRACTS

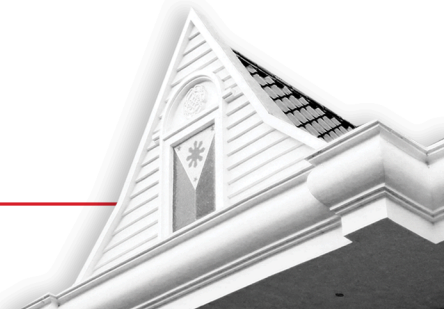
**NATURAL AND PHYSICAL SCIENCES,
HEALTH CARE AND TECHNOLOGY**

PROFESSIONALS

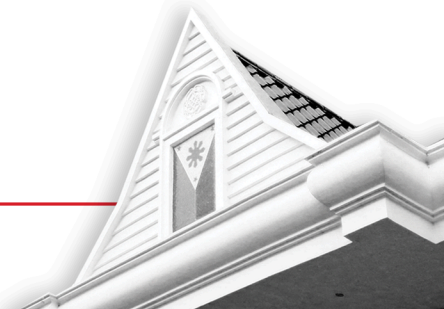
CODE	EACCIMRC-4-004
TITLE: Physicochemical And Microbial Analysis of Refrigerated and Unrefrigerated Raw Bovine Milk Using Leavening Agents at Different Time Intervals	
AUTHOR/S: April Rose B. Carasca	
AFFILIATION/INSTITUTION/S: School of Agriculture, Forestry, and Environmental Studies, J.H. Cerilles State College, Mati, San Miguel, Zamboanga del Sur	
<p>ABSTRACT</p> <p>The study evaluated the effects of leavening agents, storage conditions (refrigerated vs. room temperature), and dosage levels (single vs. double) on the physicochemical properties of milk samples. A 4x2x2 factorial experimental design in a Completely Randomized Design (CRD) was employed, with 16 milk samples per replication monitored at four-hour intervals. Significant findings included higher fat content in refrigerated storage and single dosage at 4 hours, while room temperature storage led to elevated fat levels at 12 hours. Lactose content decreased initially under room temperature and single dosage conditions, whereas solid non-fat content consistently favored refrigerated storage and double dosage. Protein levels were notably higher in refrigerated storage, and storage conditions significantly affected temperature. These results underscore the critical role of refrigeration in maintaining milk quality and reveal varying effects of dosage levels across different parameters, emphasizing the need for tailored storage strategies to optimize milk preservation.</p>	
Keywords: antimicrobial, fat, lactose, pasteurization, protein	



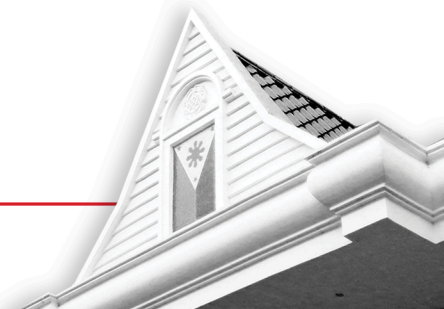
CODE	EACCIMRC-4-013
TITLE: Perception of Vegetable Farmers on the use of Pesticide in Selected Barangays of Claveria, Misamis Oriental	
AUTHOR/S: Lanelyn B. Nillas	
AFFILIATION/INSTITUTION/S: School of Agriculture, Forestry and Environmental Studies, Mati San Miguel, Zamboanga del Sur	
ABSTRACT <p>Vegetable growers are becoming dependent on the use of pesticides as a convenient approach to control pest and diseases increasing productivity and improve food production system. A survey to assess perception of farmers on the use of pesticides in vegetable production was conducted. Results revealed that farmers are aware of the harmful effects of pesticides for both human and animal health but because they considered it as good in protecting and controlling pest and diseases, thus they continually used them in their vegetable production. Majority of the farmers have no training on Integrated Crop Management and primary sources of information as to pest control are technicians from chemical companies and neighboring farmers. Generally, farmers are using broad spectrum and highly toxic chemicals although cheaper compared to specific and less toxic pesticide chemistry available in the market. Results of the study provides better understanding on the scenario of vegetable growers in Claveria and provide valuable insights into vegetable farmers' perceptions of pesticide use, which can inform the development of targeted education, safer pest management practices, and improved agricultural policies. The study can promote sustainable farming methods, enhance public health by reducing pesticide-related risks, and contribute to the development of more effective agricultural programs in Claveria, ultimately benefiting both farmers and the environment. Suitable information on integrated crop management through extension service support and good policy making for improving decisions about pesticides usage would be necessary.</p>	
Keywords: Pesticide usage, pest control, Integrated crop management, awareness, natural enemies	



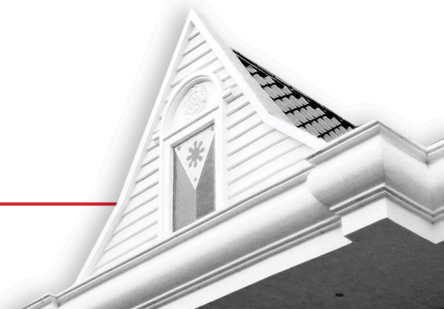
CODE	EACCIMRC-4-058
TITLE: Leveraging Molecular Techniques to Assess the Microbiological Quality of Water in Commercial Establishments	
AUTHOR/S: Dennis Espineli Salcedo, Ferryvic Mercado and Supachai Basit	
AFFILIATION/INSTITUTION/S: School of Medical Technology, Emilio Aguinaldo College Cavite, Dasmariñas City, Cavite	
<p>ABSTRACT</p> <p>Water quality in commercial establishments is crucial for public health. Conventional microbiological techniques for evaluating the quality of water can be labor-intensive and time-consuming. In order to quickly and precisely identify coliform bacteria in water samples from different commercial facilities, this study will use molecular approaches. To isolate coliform bacteria, water samples were gathered and put through routine microbiological procedures. The isolated colonies underwent additional genotypic and phenotypic analysis. Using 16S rRNA primers, DNA was taken from the separated colonies and amplified. Agarose gel electrophoresis was used to visualize the amplified products.</p> <p>All isolated colonies showed phenotypic traits typical of coliform bacteria, according to the study's findings. Additionally, all isolates confirmed their identity as coliform bacteria by producing DNA bands of the proper size when amplified using 16S rRNA primers.</p> <p>This study shows how molecular methods can be used to quickly and accurately evaluate the quality of water in commercial buildings. Public health organizations can efficiently detect and reduce any health hazards connected to tainted water sources by using molecular techniques into regular water quality monitoring programs.</p>	
Keywords:Antibiotic sensitivity test (AST), coliforms, molecular techniques, Polymerase chain reaction (PCR), Water quality	



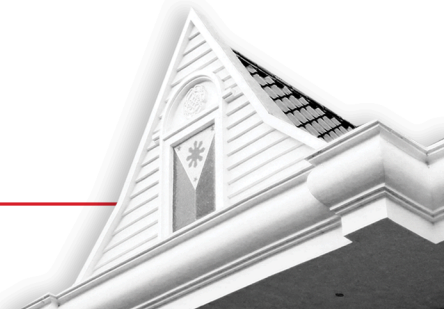
CODE	EACCIMRC-4-059
TITLE: Efficacy of Teasing and Thin Sectioning Methods on Nucleic Acid and Protein Recovery from Formalin- Fixed Paraffin-Embedded Tissue Blocks	
AUTHOR/S: Dennis Salcedo and Supachai Basit	
AFFILIATION/INSTITUTION/S: School of Medical Technology, Emilio Aguinaldo College Cavite, Dasmariñas City, Cavite	
<p>ABSTRACT</p> <p>Retrospective molecular studies benefit greatly from the use of tissue blocks that have been formalin-fixed paraffin-embedded (FFPE). Nevertheless, a significant obstacle still exists in the effective extraction of high-quality DNA and protein from these blocks. The purpose of this study is to evaluate the effectiveness of two popular tissue extraction techniques: thin sectioning and teasing. Both techniques were applied to FFPE tissue blocks, and the yields of proteins and DNA, together with the purity ratios that resulted, were evaluated.</p> <p>Our results show that thin sectioning consistently produced higher yields of DNA and protein than the teasing method. Thin sectioning performs better because it minimizes the loss of cellular content while producing a more uniform and representative sample of the tissue. Furthermore, thin sectioning may result in less tissue damage, which could improve the quality of the proteins and nucleic acids that are extracted.</p> <p>These results have significant implications for researchers working with FFPE tissue. Tissue extraction techniques can be improved to increase the yield and caliber of molecular information gleaned from archival samples. In addition to improving our knowledge of disease mechanisms and the creation of tailored medicines, this could result in more precise and trustworthy diagnostic and prognostic data.</p> <p>Future research could examine how various tissue types, fixation durations, and slice thicknesses affect how effective these extraction techniques are. Furthermore, the quality and amount of molecular material extracted from FFPE tissue may be further enhanced by the development of innovative procedures like laser capture microdissection.</p>	
Keywords: Molecular Diagnostics, Molecular Forensics, Tissue Blocks, Formalinized Tissues, DNA Extractions	



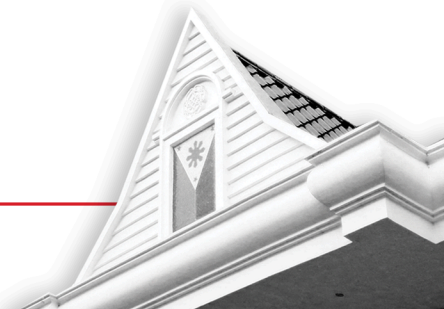
CODE	EACCIMRC-4-060
TITLE: Bayesian Insights into History of Vaccination, COVID-19 Infection, and Disease Severity in Post-Pandemic Antigen-Negative Cohorts	
AUTHOR/S: Angelo Christian De Guzman, Keisha Faith Gallo and Supachai Basit	
AFFILIATION/INSTITUTION/S: School of Medical Technology, Emilio Aguinaldo College Cavite, Dasmariñas City, Cavite	
<p>ABSTRACT</p> <p>The global response to the COVID-19 pandemic has required a deeper understanding of vaccine effectiveness, infection patterns, and disease severity, especially in antigen-negative populations during the post-pandemic period. This study examines the associations between vaccination history, prior COVID-19 infection, and disease severity in persons who tested negative for COVID-19 by antigen testing. A Bayesian framework was utilized to assess the probability of infection history and disease severity about vaccination status, incorporating prior beliefs and empirical evidence. A chi-square test of independence examined the relationship between immunization history and previous COVID-19 infection.</p> <p>Results demonstrated a significant association ($p < 0.001$) between vaccination status and illness history, suggesting that vaccination patterns affect historical infection trends. Bayesian analysis further strengthened the probabilistic understanding of illness severity, emphasizing minimal likelihood of severe outcomes in antigen-negative cohorts, with posterior estimates strengthening the protective impact of immunization. These findings highlight the significance of Bayesian methodologies in post-pandemic research, offering detailed insights into population immunity patterns and guiding future public health measures.</p> <p>This work enhances the existing evidence that vaccination is essential in reducing COVID-19 severity and provides a comprehensive analytical approach for analyzing immunity patterns in antigen-negative populations.</p>	
Keywords: Bayesian Model, COVID-19, Antigen Testing, COVID Vaccine, Asymptomatic	



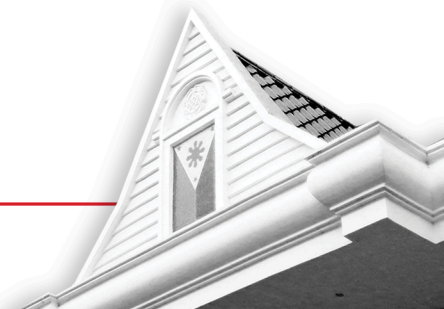
CODE	EACCIMRC-4-062
TITLE: Prevalence of Frequently Consulted Disease by Students and Employees in a Private University in General Trias, Cavite for Academic Year 2022-2023: Basis for Improved Health Services	
AUTHOR/S: Angelique N. Pastrana, Liezel Sabucdalao, Victoria Talamayan	
AFFILIATION/INSTITUTION/S: Lyceum of the Philippines University – Cavite, Governor’s Drive, General Trias, Cavite	
ABSTRACT Background: The Health Services Department of a private university in General Trias, Cavite caters to the wellness and health care of all of its stakeholders. Yearly policies and programs are made depending on the most common cases handled the previous academic year. Objective: To determine the prevalence of most frequently consulted diseases by students and employees for AY 2022-2023. Study Design: Retrospective cross-sectional study. Methodology: The medical records of all students and employees with clinic consultation from August 2022 until January 2023 were retrieved. Final diagnosis of each patient was noted and tallied. Result: The Health Services Department received a total of 247 clinic consultations (216 employees and 31 students). There was female preponderance (68.8%) with male to female ratio of 1:2.2. Majority were in the late adolescence age group (50.4%) and treated as outpatient then sent home (97.9%). Students commonly presented with abdominal pain, dizziness and colds while majority of employees came in for respiratory complaints, skin lesions and abdominal pain. Conclusion: Majority were in the late adolescence age group (50.4%) and treated as outpatient then sent home (97.9%). Bulk of the diagnoses was COVID 19 infection, followed by Dysmenorrhea, Acute Gastroenteritis and Major Depressive Disorder.	
Keywords: Healthcare, Medical records, Adolescent age group diseases, Clinic consultation, Adult diseases	



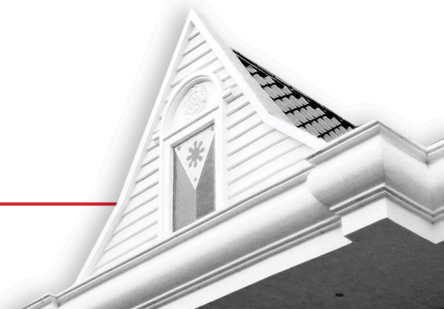
CODE	EACCIMRC-4-079
TITLE: Discrimination Among Healthcare Professionals During COVID-19 Crisis: A Phenomenological Study	
AUTHOR/S: Marjorie Fay P. Sta. Maria, Glenn A. Guira	
AFFILIATION/INSTITUTION/S: 1) De la Salle Medical and Health Sciences Institute, Mangubat Rd, City of Dasmarinas, Cavite 2) Dep-Ed Schools of Division-Philippines Ilocos Sur	
ABSTRACT <p>The study explored the lived experiences of hospital nurses during the COVID-19 pandemic that has affected the whole world. The study included hospitals nurses who have experienced being discriminated against because of their role in providing care to clients who were diagnosed with COVID-19 disease. Likewise, the study employed the phenomenological design to gather the narrations from selected participants who met the inclusion criteria which included the following: (1) nurses who have been discriminated during the COVID-19 pandemic for the last six months, (2) 20-50 years old, (3) male or female registered nurse employed in selected government and private Philippine Hospitals, (5) Filipino citizen, and (6) willing to participate as a respondent. Moreover, data analysis was through thematic analysis utilizing Colaizzi's seven (7) steps (Morrow et al., 2015). Likewise, the conduct of the research among nurses in Philippine hospitals observed different ethical considerations. The findings reveal that various forms of discrimination, including racial, ethnic, gender-based, age-related, and LGBTQ+ discrimination, were prevalent among healthcare professionals. These instances of discriminatory behaviors highlight the urgent need for targeted interventions and legislative reforms. The study also highlights the detrimental impact of discrimination on the mental health of healthcare professionals, leading to increased levels of stress, anxiety, and burnout. It emphasizes the importance of implementing comprehensive support systems and interventions to address these long-term effects on their well-being. Additionally, the research identifies effective strategies and interventions to mitigate discrimination in healthcare settings. Evidence-based recommendations are provided to promote diversity, inclusion, and equity within healthcare systems. These findings have implications for policymakers, healthcare organizations, and stakeholders in creating inclusive and supportive environments for healthcare professionals. The study contributes to the body of knowledge on discrimination in healthcare and emphasizes the significance of fostering a more inclusive and equitable healthcare system.</p>	
Keywords: Keywords:Discrimination, COVID-19, Phenomenology, Hospital Nurses, Thematic Analysis	



CODE	EACCIMRC-4-084
TITLE: Effects of Varying Concentrations of Beneficial Heavy Metals on Shoot Length in <i>Allium sativum</i> L. Grown in Hydroponic Systems	
AUTHOR/S: Canlas, M.N., Arroyo, L.J.M., Bravo, N., Dellona, S., Torrenueva, B., Ujano, W.	
AFFILIATION/INSTITUTION/S: 1) De La Salle University, 2401 Taft Ave, Malate, Manila, 1004 Metro Manila 2) National University Mall of Asia (NU MOA), GXJJ+89C, Coral Way, Pasay, Metro Manila	
ABSTRACT <p>Heavy metal contamination in soil and water poses a significant threat to agriculture, as many metals become toxic to plants at elevated concentrations, affecting crop yield and food safety. While metals like nickel (Ni), copper (Cu), and zinc (Zn) serve as essential micronutrients for plant growth, their transition from beneficial to toxic concentrations is poorly understood for many crops, including garlic (<i>Allium sativum</i> L.). As garlic is a valuable culinary and medicinal plant, this study aimed to evaluate its tolerance and growth response to varying concentrations of these heavy metals in a hydroponic system. Unbruised garlic cloves (4 ± 1 g, 10 ± 3 mm diameter) were exposed to solutions of NiSO₄, CuSO₄, and ZnSO₄ at concentrations of 1 ppm, 10 ppm, 100 ppm, and 1000 ppm, with distilled water serving as a control. Each clove was floated in 50 mL of solution and monitored for 10 days under natural light and moderate temperature. Shoot length was measured daily, and morphological abnormalities were documented. The results revealed that low zinc concentrations (1 ppm) enhanced shoot growth by approximately 15% compared to the control, indicating a stimulatory effect. In contrast, higher concentrations of Ni and Cu, particularly at 10 ppm and above, significantly inhibited shoot development, with growth reductions reaching up to 40% at 100 ppm. These findings highlight the narrow range of metal concentrations within which garlic can benefit from these nutrients before experiencing toxicity. This study emphasizes the critical balance between essential and toxic levels of heavy metals, underscoring the need for careful management of these elements in garlic cultivation to optimize growth and minimize adverse effects.</p>	
Keywords: Heavy metal contamination, <i>Allium sativum</i> , Garlic growth, Nickel, Copper, Zinc Toxicity, Hydroponic cultivation.	



CODE	EACCIMRC-4-094
TITLE: Sustainability of Trichoderma spp. Cultured in Food Scraps-Based Alternative Media for Biological Control and Fertilizers	
AUTHOR/S: Bravo, N., Arroyo, L. J. M., G., Ujano, W., Canlas, M., Torrenueva, B., Dellosa, S., Coluso Z. M., Pajaron J, Su, R., Uy H. G.	
AFFILIATION/INSTITUTION/S: 1) National University – Mall of Asia, Pasay City 2) De La Salle University – Manila, Manila City 3) Saint Jude Catholic School – Manila City	
ABSTRACT <p>Trichoderma is considered to increase agricultural production while lowering the necessity for fertilizer and pesticides. However, there is currently a lack of commercialization and processing of Trichoderma species in the industry. Thus, to perpetuate the cultivation of fungi, this research aims to find more alternatives that would stimulate the growth of fungi. The study's objective was to compare the increase in growth of Trichoderma spp. grown on different alternative media to that of the biocontrol agent Trichoderma spp. grown on oats for culturing. This experiment used four different media: unmarketable oats, recycled coconut pulp-squeezed water, banana peels, and carrot peels, all of which were added to a Petri dish for inoculation to assess and quantify Trichoderma spp.'s growth. The average growth rate of Trichoderma spp. was the greatest in oatmeal agar (11.488 mm/day), followed by the recycled coconut pulp milk agar (9.726 mm/day), then banana peel agar (5.884 mm/day), fresh coconut milk (2.468 mm/day). Lastly was the carrot peel agar (0 mm/day). In addition to helping to cultivate Trichoderma spp., which is helpful for crop pest and disease management, it can potentially reduce the use of viable food products such as oats, which is still possible in sustainable Trichoderma spp. production while ensuring the reduction of food waste and increasing the use of alternative biological controls in agriculture instead of harmful chemicals.</p>	
Keywords: Sustainable Production in Agriculture, Biological Control, Fungi, Mycoparasitism, Biofertilizers	



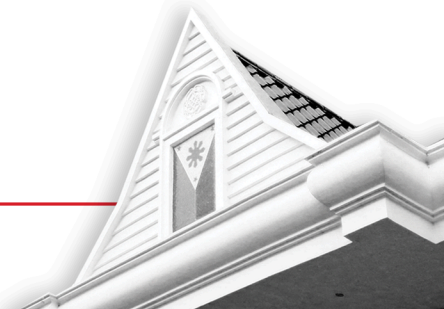


ABSTRACTS

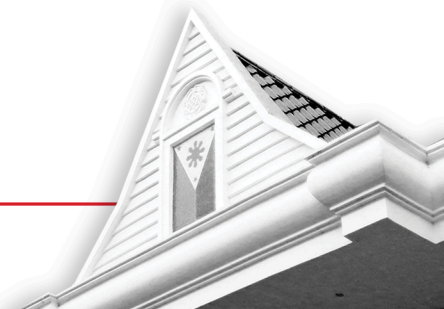
**COMPUTING, AUTOMATION,
ENGINEERING, AND TECHNOLOGY**

PROFESSIONALS

CODE	EACCIMRC-4-019
TITLE: The Status of the Implementation of Flight Simulator Training in One Aviation Institution in the Philippines	
AUTHOR/S: Dr. Lina M. Constante, Dr. Ethel Reyes-Chua, Engr. Juncen Gardose, Capt. Philippe Andrew Cristino	
AFFILIATION/INSTITUTION/S: Air Link International Aviation College , Domestic Road, Domestic Airport Pasay City Philippines	
ABSTRACT The purpose of this action research was to assess the current status of implementation of flight simulator training at ALIAC, a renowned aviation institution in the Philippines. The study examined data from the year 2024, which offers a thorough summary of simulator activities. There were a variety of various number of simulator flying hours, days of output, and engagement by cadets that were noted. Significantly, the occurrences of individuals not showing up for scheduled training sessions in April and May constituted 24.74% and 28.68% of the total planned training hours, respectively, suggesting difficulties in the operational aspect. This cited absenteeism as the main cause, accounting for 99.068% of missing sessions, highlighting the necessity for more stringent attendance regulations and improved communication. It explored supplementary elements that contribute to absenteeism, such as issues in scheduling and academic stress, providing valuable information for focused treatments. It also detailed the proactive steps used to reduce absenteeism, including the use of advisories, classroom discussions focused on penalty, and counseling sessions for learners who are frequently absent. The objective of these initiatives was to cultivate a structured training atmosphere, raise the rate of participation, and ultimately elevate the caliber and readiness of cadets in fulfilling the benchmarks set by the industry at ALIAC.	
Keywords: Flight simulator training, aviation institution, absenteeism, attendance regulations, counseling sessions	



CODE	EACCIMRC-4-020
TITLE: The Use of Artificial Intelligence in one Aviation Institution in the Philippines	
AUTHOR/S: Gomeriano V. Amurao, Lina M. Constante, Ethel Reyes-Chua, Jhennie Villar, Hazel Irish Pagulayan, Erielyn Reyes	
AFFILIATION/INSTITUTION/S: Air Link International Aviation College	
ABSTRACT <p>This mixed-method of research aimed to examine the extent to which artificial intelligence technologies are being utilized by participants in one aviation institution. The study presented that ChatGPT is preferred due to its sophisticated linguistic capabilities, user-friendly interface, and extensive availability throughout the university. Grammarly and Google Bard were renowned options due to their particular grammatical checking capabilities and AI-powered writing suggestions. These findings highlighted an increasing acknowledgment of AI technologies that are designed to improve the quality of writing in educational environments. Nevertheless, the study acknowledged that adoption rates differ, indicating the necessity for customized assistance to meet different learning preferences and guarantee inclusive educational practices. Suggestions encompass the integration of AI technologies more widely into the aviation college's curriculum, the development of tailored training programs to maximize their advantages, and the promotion of ethical and efficient utilization. The text emphasizes the capacity of AI to enhance writing efficiency and productivity, while also warning about potential drawbacks such as diminished diversity and creativity in student work, economic consequences, and effects on critical thinking abilities. The study promotes a balanced strategy that integrates AI with conventional learning approaches to encourage holistic student development and innovation in a continually changing educational environment.</p>	
Keywords: Artificial intelligence, linguistic capabilities, educational environments, aviation curriculum, holistic student development.	



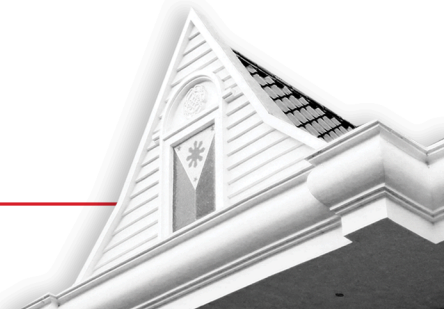


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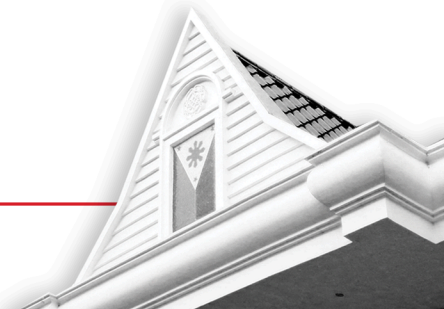
**ACCOUNTANCY, BUSINESS,
AND MANAGEMENT**

PROFESSIONALS

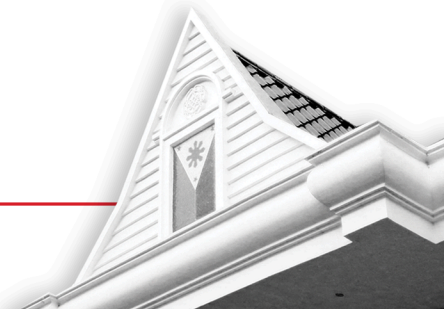
CODE	EACCIMRC-4-090
TITLE: From Knowledge to Action: A Study on the Impact of Financial Education, Literacy, Behavior and Decisions	
AUTHOR/S: Chang, Edgar L., Bernardo, Joanna Marie L., Cabal, Jessa Mae C., Pantaleon, Allen Gabriel N., Sioson, Vien Clarence F.	
AFFILIATION/INSTITUTION/S: Dr. Yanga Colleges, Bocaue, Bulacan	
<p>ABSTRACT</p> <p>This study explores the interconnected influence of financial education, financial literacy, financial behavior, and financial decision-making among college students. A comprehensive questionnaire was administered to gather primary data from 184 third-year and fourth-year students majoring in Financial Management, Marketing Management, and Human Resource Management at the College of Business Administration, Dr. Yanga's Colleges, Inc., located in Bocaue, Bulacan. The data analysis was conducted using the Partial Least Squares - Structural Equation Modeling (PLS-SEM) technique, which is suited for the varying scales of the measured variables. The findings revealed a significant positive correlation between financial education, financial literacy, and financial behavior. They informed financial decisions, highlighting the critical role that financial education plays in shaping students' financial competencies. Results suggest that enhancing financial literacy can directly influence better financial behaviors and sound decision-making. The results underscore the importance of integrating financial education into academic curricula to equip students with essential skills and knowledge for effective financial management, ultimately fostering a generation of financially savvy individuals.</p>	
Keywords: Financial Literacy, Financial Education, Financial Behavior, Financial Decisions	



CODE	EACCIMRC-4-103
TITLE: : The Influence of Taxation Understanding, Accounting Information Technology and E-filing Utilization on Taxpayers' Compliance (A Case Study of MSME Taxpayers' Registered at KPP Pratama Yogyakarta)	
AUTHOR/S: Sri Ayem, Nur Anita Chandra Putry, Umi Wahidah, Yasminia Eka Rahmadani	
AFFILIATION/INSTITUTION/S: Accounting Study Program, Sarjanawiyata Tamansiswa University, Jalan Kusumanegara No 157, Yogyakarta, Indonesia	
<p>ABSTRACT</p> <p>In Indonesia, tax is one of the most significant sources of state revenue. Taxpayers' compliance is crucial in the realization of tax revenue to achieve the tax revenue target. The level of taxpayers' compliance of MSME players is still very concerning. The taxpayers' compliance of MSMEs is caused by several factors. This research aims to determine the effect of taxation understanding, accounting information technology and e-filing utilization of taxpayers' compliance. This research involved 120 taxpayers who already had NPWP and were registered at KPP Pratama Yogyakarta. The research method used a quantitative approach with the data source used being primary data by questionnaire. The data analysis technique used was multiple linear regression using the SPSS 25 Program. The study results show that taxation understanding, accounting information technology utilization, and the use of e-filing have a positive and significant effect on taxpayers' compliance. The results of this study are expected to help improve taxpayers' compliance with their obligations as taxpayers. The study results also show that the better the taxpayers' understanding of tax regulations is, the more likely they are to comply with tax obligations. In addition, the application of information technology in accounting and the use of the e-filing system facilitates the tax reporting process, which in turn can increase the level of tax compliance.</p>	
Keywords: taxation, accounting information technology, e-filing, taxpayers' compliance	



CODE	EACCIMRC-4-104
TITLE: : Import Duty Policy and Value Added Tax Increase on K-pop Merchandise Buying Interest with Tax Understanding as A Moderating Variabel	
AUTHOR/S: Suyanto, Tifenia Ananda Sandhi Eriska, Fuadhillah Kirana Putri	
AFFILIATION/INSTITUTION/S: Accounting Study Program, Faculty of Economic, Sarjanawiyata Tamansiswa University, Yogyakarta, Indonesia	
<p>ABSTRACT</p> <p>This study aims to examine the impact of import duty policies and Value Added Tax (VAT) rate increases on the purchase intention of K-pop merchandise in Indonesia, as well as the role of tax understanding in moderating the effect. This study involved 165 Indonesian K-pop fans who have purchased merchandise by import. This study uses the Partial Least Square (PLS) method which is analyzed through the SmartPLS 4.0 application. The results show that import duty policies and VAT rate increases do not significantly reduce fans' purchase intention in importing K-pop merchandise, while tax understanding proves to be able to weaken the influence of these two variables on purchase intention. This research provides new insights for taxation stakeholders in designing strategies amid the dynamics of the Korean Wave.</p>	
Keywords: Merchandise K-pop, Import Duty, VAT Rate, Tax Understanding	



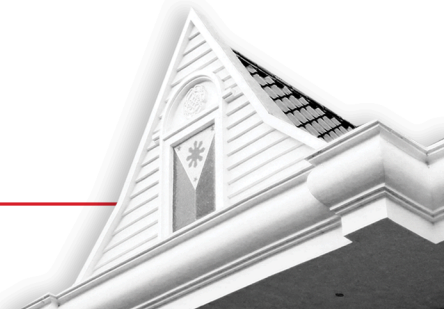


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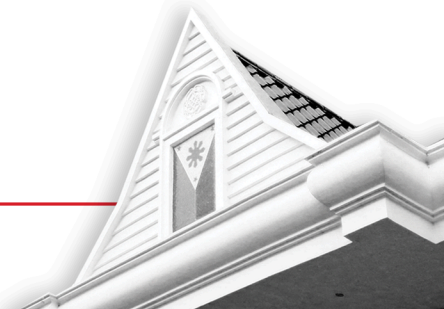
**EDUCATION, HUMANITIES,
AND SOCIAL SCIENCES**

PROFESSIONALS

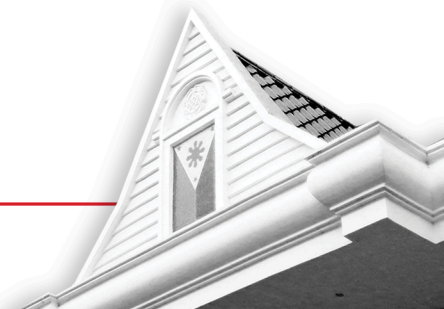
CODE	EACCIMRC-4-002
TITLE: : Implementation of the Strategic Performance Management System (SPMS) In One State University	
AUTHOR/S: Rolando R. Cruzada, Jr.	
AFFILIATION/INSTITUTION/S: College of Arts and Sciences, Laguna State Polytechnic University, Siniloan Campus	
<p>ABSTRACT</p> <p>This study analyzed the workforce demographic profile and the implementation effectiveness of the Strategic Performance Management System (SPMS) at the concerned State University. It was noted that diverse demographic profile of the workforce and the high level of SPMS implementation provide a strong foundation for the State University. By continuing to fine-tune and enhance its performance management practices, the university can achieve greater organizational effectiveness and foster a culture of continuous improvement and development.</p>	
Keywords: workforce, demographic profile, performance management practices, organizational effectiveness, culture of continuous improvement and development	



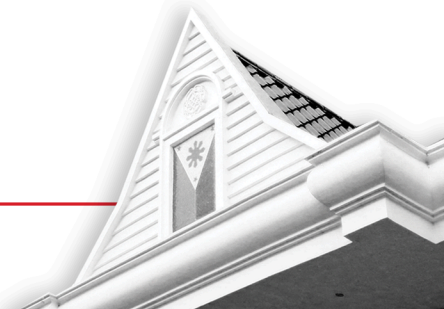
CODE	EACCIMRC-4-005
TITLE: What Crisis and Precarity Teach Us: Online Teaching Experiences Among Literature Teachers Amid the Pandemic	
AUTHOR/S: Arielle Fiona T. Aliwalas	
AFFILIATION/INSTITUTION/S: School of Arts and Sciences, National University, Philippines	
ABSTRACT <p>Crisis and precarity are excellent teachers. The COVID-19 pandemic prompted a sudden shift to online teaching in most educational institutions, especially in the Philippines. While the change to remote online learning appeared to be the most sensible option, studies have indicated that teachers faced various challenges in preparing and delivering quality content. Through the lens of adaptive expertise, this study describes selected Filipino junior and senior high literature teachers' challenges, interventions, and epiphanies amid online instruction and the pandemic in public and private schools. The data on teachers' experiences and coping mechanisms in online literature teaching during a global crisis were gathered through written narratives and online semi-structured interviews, then analyzed using thematic analysis. The findings revealed that the literature teachers have encountered physical, emotional, and pedagogical challenges, utilized innovative and adaptive methods and tools to continue the quality and equitable literature education, and discovered the integral role of care and empathy in teaching literature amid a crisis. The insights of this study aim to help teachers, scholars, and education stakeholders construct new perspectives and improvements on the teaching and learning process of literature post-pandemic and beyond.</p>	
Keywords: COVID-19, adaptive expertise, online literature teaching, third space, crisis pedagogy	



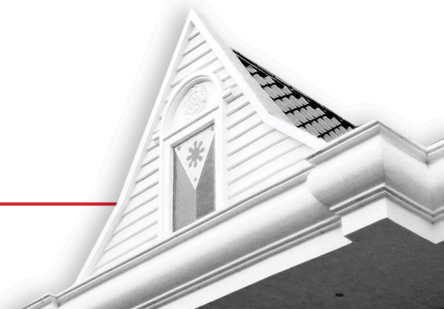
CODE	EACCIMRC-4-006
TITLE: The Relationship between Socioeconomic Status Dimensions and Academic Anxiety of Filipino College Students	
AUTHOR/S: Marypaul Louise S. Apolonio	
AFFILIATION/INSTITUTION/S: Faculty of Behavioral and Social Sciences, Philippine Normal University-Manila	
ABSTRACT <p>This study investigated the relationship between socioeconomic status dimensions and academic anxiety among Filipino college students in Metro Manila. Using a correlational design, a sample of 330 respondents was recruited from various municipalities from Metro Manila. The respondents' current socioeconomic status, particularly their parents' educational attainment, parents' occupation, family monthly income, and family size were assessed using a nominally assigned Likert scale questionnaire, and their level of academic anxiety was measured using Academic Anxiety Scale (AAS). The results revealed a statistically significant negative correlation between elementary and high school graduate fathers, fathers with blue collar jobs, and academic anxiety, whereas positive correlation was seen on college graduate fathers, parents with white collar jobs, and higher family monthly income. Father's educational attainment and occupation, family size, and age showed a significant influence on academic anxiety. The results of this research contribute to the growing body of knowledge that supports the notion that higher academic pressure and expectations and lower guidance and support influences the occurrence of academic anxiety in students. Therefore, in order to provide a supportive learning environment, it is recommended to implement interventions including parental workshops, financial literacy programs, family seminars, coping strategies modules, wellness education, and cultural sensitivity work. Longitudinal studies should take priority in future research to evaluate the long-term impact of these interventions on lowering academic anxiety and improving student wellbeing.</p>	
Keywords: Educational attainment, Blue collar jobs, White collar Jobs, Academic pressure, Academic stress	



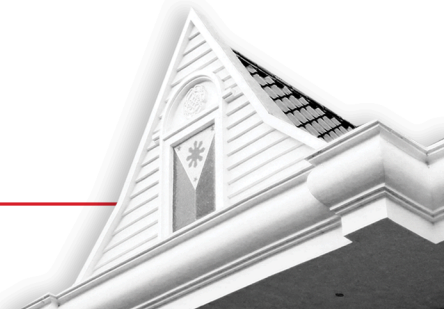
CODE	EACCIMRC-4-017
TITLE: READY FOR A THEOLOGY OF THE MIND? – Faith Response to the Mental Health Crisis	
AUTHOR/S: Ramil R. Marcos, S.Th.D.	
AFFILIATION/INSTITUTION/S: Emilio Aguinaldo College Cavite, Gov. Mangubat Ave., Burol Main, City of Dasmarinas	
ABSTRACT The Department of Health (DOH) estimates about 3.6 million people afflicted with mental, neurological, and substance use disorder, for whom services in the Philippines are limited and unequal due to cultural or sociological factors and lack of available resources and facilities. There is very little accurate and updated epidemiological data on mental health disorders in the country. However some important data have been sourced through the support of the World Health Organization (WHO). A consistent increase in suicide rates, higher in males than in females, have been noted in the past years' surveys by both private researchers and government agencies. It is not the goal of this paper to delve into the alarming statistics of this phenomenon which can be easily found in veritable medical research. Rather, this paper intends to explore the exigency and the viability of the church's deeper awareness and involvement in the mental health issues affecting many Filipinos today. The church has well-developed theoretical and pastoral strategies when it comes to the theology of the body, of human dignity, or of human solidarity, and we are comfortable in discussing and presenting such themes, as well as formulating programs based on the thoughts and reflections derived from them. But what about a "theology of the mind," an attempt at finding a balance between the spiritual and practical, between the religious and psychological, between faith and science, at the service of those who suffer invisible torments that affect their relationship with God and with other people, those who hope that through their faith community they can find an answer, and even those whose wounds can be traced back to the church or to their difficult experience of religion? How should the church respond to this challenge?	
Keywords: mental health, church response. Magisterium, accompaniment, dignity, theology of the mind	



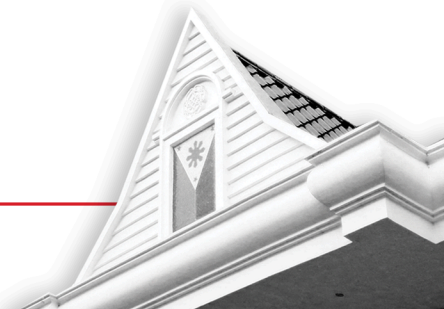
CODE	EACCIMRC-4-025
TITLE: Contextualized Laboratory Manual in Earth and Life Science: Its Influence on the Academic Performance of Grade 12 Learners	
AUTHOR/S: Delfin G. Valdez, Department of Education	
AFFILIATION/INSTITUTION/S: Sta. Isabel National High School, City of Ilagan, Isabela	
ABSTRACT <p>Laboratory instruction is pivotal for implementing learner- centered pedagogy, facilitating hands-on learning experiences that enable learners to become active thinkers and to apply theoretical concepts learned in class to real-world situations. This study aimed to determine the influence on academic performance of learners in Earth and Life Science using a contextualized laboratory manual. Thirty (30) Grade 12 learners were selected through systematic random sampling, with their performance measured using a reliable teacher-made test. Employing mixed-method utilizing exploratory sequential method, data analysis involved weighted mean, paired and independent samples t-test for significant difference, and Cohen's D for effect size; and thematic analysis for exploring respondents' experiences and challenges. The findings revealed significant improvements in both control and experimental groups' academic performance from pre-test to post-test. While the control group excelled the experimental group in pre-test scores, there was no notable difference in post-test scores, indicating equivalent performance levels. In addition, a substantial effect size highlighted the intervention's impact on the experimental group. Thematic analysis revealed ten (10) distinct themes, including students' amazement and enjoyment of learning experiences with excellent remarks, challenges with lab results interpretation, and suggestions for improvement such as enhanced materials handling and optimized experimentation. The Contextualized Laboratory Manual effectively improved students' performance in Earth and Life Science, demonstrated by the notable increase in scores between the pre-test and post-test among experimental group participants. Encouraging teachers to incorporate laboratory activities in teaching Science concepts to help learners enhance their performance, hereby the Contextualized Laboratory Manual is recommended.</p>	
Keywords: Meaningful and Experiential Learning, MELC-based experiment, Lab report	



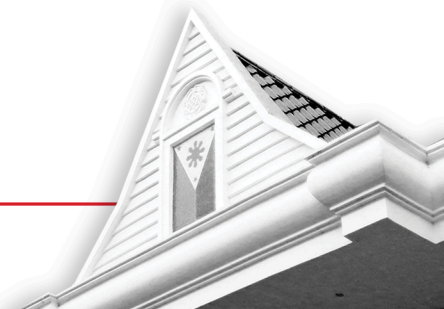
CODE	EACCIMRC-4-065
TITLE: AN ANALYSIS OF THE DISASTER MANAGEMENT PROGRAM OF SELECTED HIGHER EDUCATION INSTITUTIONS (HEIs) IN CAVITE, PHILIPPINES: TOWARDS THE DEVELOPMENT OF A DISASTER RISK REDUCTION MANAGEMENT MODEL FOR SCHOOLS	
AUTHOR/S: Leon L. Fojas, RN, MAN, PhD	
AFFILIATION/INSTITUTION/S: College of Nursing De La Salle Medical and Health Sciences Institute, Dasmariñas City, Cavite	
<p>ABSTRACT</p> <p>The Philippines, situated on the Pacific Ring of Fire, faces extreme vulnerability to natural disasters, endangering millions of students in over 2,000 higher education institutions (HEIs). To address these risks, the study emphasizes proactive disaster prevention, mitigation, and climate adaptation under the National Disaster Risk Reduction and Management Framework, aiming to build resilient and prepared educational communities. This study analyzed the Disaster Management Program of selected Higher Education Institutions (HEIs) in Cavite, Philippines to develop a Risk Reduction Management model. A mixed-method research design was utilized involving seven HEIs comprising of two State Universities and five Private Universities/Colleges. Respondents are the administrators, faculty, and non-teaching personnel, head of disaster management program, 3rd year, and 4th -year students. Findings revealed that some critical provisions of the NDDRMC RA 101211 was not strictly followed by the participating HEIs. Furthermore, respondents differ on their usage of available resources and the extent to which they implement the program. Having earthquake and evacuation drills and support from the management were the major strengths while budget allocation and evaluation of the program were their weaknesses. The study calls for an emergent disaster risk reduction management model for HEIs.</p>	
Keywords: Philippine Disaster Management, School Safety, DRRM Model Development Disaster Risk Management Model, Emergency Response in School	



CODE	EACCIMRC-4-066
TITLE: Online Distance Learning: Clinicians' Attitude during the COVID-19 Pandemic in the University of Baguio	
AUTHOR/S: Dr. Edgar Allan S. Pangisban	
AFFILIATION/INSTITUTION/S: School of Dentistry, University of Baguio, Baguio City	
<p>ABSTRACT</p> <p>During the early periods of 2018, the Covid-19 pandemic brought significant changes in the health, economic, and educational sector. To cope with the current circumstance and to ensure continuity in education, it was agreed by most educational institutions to adapt online distance learning as the mode of teaching and learning. Curriculum, instruction, and assessment were changed to adapt to this new mode of teaching and learning. Thus, dental education was mostly affected by these changes more especially due to the nature of its curriculum which includes both theoretical and skills assessment. This study was conducted to determine the attitude of dental clinicians of the University of Baguio School Of Dentistry with regards to the conduct of online distance learning in Clinical Dentistry. Additionally, the study explored the challenges experienced by the clinicians during the period of the implementation of online distance learning in clinical dentistry. This study utilized explanatory sequential research design to assess online learning preferences, attitude of the clinicians and challenges experienced by the clinicians in the early implementation of online distance learning in clinical dentistry. Results of the study showed that there is no significant difference in the attitude in the management of online learning, clinical benefits observed and motivations among dental clinicians of different clinical levels. Additionally, results show that challenges experienced by the clinicians revolve around ICT utilization, web connectivity, acquiring materials and resources, dental laboratory services and confusion on areas of the program, policies and guidelines of the clinical enhancement program. The study concludes that online learning was the best approach to ensure continuity of learning during the Covid-19 pandemic. However, the lack of practical training necessary to develop skills, patient rapport and management and numerous challenges experienced, online distance learning is better utilized as an adjunct in the conduct of clinical dentistry.</p>	
Keywords: online distance learning, covid 19 pandemic, clinical dentistry	

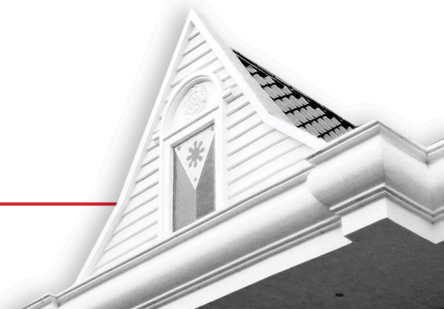


CODE	EACCIMRC-4-092
TITLE: Amazing Learners' Group: A Case Study (Development of Theory of Collaborative Culture)	
AUTHOR/S: Dr. Diosmar O. Fernandez	
AFFILIATION/INSTITUTION/S: School of Education, Emilio Aguinaldo College Cavite Dasmariñas City, Cavite	
ABSTRACT <p>This case study explores the remarkable academic achievements of a group of learners predominantly recognized as honor students (29 out of 33), showcasing distinctions such as highest honors, high honors, and honors. The primary objective of the study is to investigate the underlying factors contributing to their success. Utilizing a case study research design, it involved interviews with 15 selected learners to uncover the narratives behind their accomplishments. Findings revealed that teamwork, motivation, mutual support, healthy competition, self-realization, humility, and the joy of celebrating each other's successes were integral to their prior academic environment. However, their transition to a new academic setting presented significant challenges, including a lack of motivation, diverse backgrounds, reluctance to engage, and a tendency toward mediocrity. In response, these learners articulated essential criteria, including establishing group dynamics, fostering strong interpersonal bonds, prioritizing others' well-being, and promoting effective communication, as necessary for replicating their previous success in the new environment. This study highlights the importance of camaraderie and a supportive academic culture in nurturing intrinsic motivation and academic excellence. It advocates for educational institutions to embrace a collaborative culture, where teachers and students actively share ideas and support one another to achieve common goals. Recommendations include the development of clear communication channels, regular collaborative planning sessions, and strong leadership commitment to foster a culture of trust and respect. By implementing these strategies, schools can create conducive learning environments that enhance students' performance and well-being, ensuring the success of all learners in their academic journeys.</p>	
Keywords: goal-oriented, teamwork, competition, communication, support	



CODE	EACCIMRC-4-093
TITLE: LEARNING PREFERENCES AND STUDENT ENGAGEMENT IN BLENDED LEARNING AT A COLLEGE OF ARCHITECTURAL TECHNOLOGY	
AUTHOR/S: Li Jianxin, Dave E. Marcial	
AFFILIATION/INSTITUTION/S: 1) Sichuan College of Architectural Technology, China 2) Silliman University, Philippines	
ABSTRACT <p>Student engagement, which refers to the time and effort learners dedicate to educational activities and their positive behaviors is a key factor in the success of blended learning environments. Blended learning combines traditional face-to-face instruction with online, web-based learning, integrating these two modes to offer personalized, flexible learning experiences that align with educational goals. This study investigates the relationship between students' learning preferences and their levels of engagement in a blended learning setting at a College of Architectural Technology. Specifically, it examines how various learning preferences impact student engagement and whether a significant correlation exists between them. The study was conducted at Sichuan College of Architectural Technology in Deyang City, China, involving 262 students from the Department of Engineering Management. Data were collected through an online survey, focusing on behavioral, cognitive, attitudinal, and social engagement and learning preferences such as motivation, attitude, and self-efficacy. The results indicate that students generally agree with engaging in the blended learning environment. Respondents expressed confidence in enhancing their professional skills through blended learning and perceived it as a valuable tool for academic success. They also showed a willingness to use digital devices like computers and smartphones to support their learning.</p> <p>Furthermore, the study found a significant positive correlation between learning preferences and student engagement. Factors such as learning motivation, attitude, and self-confidence strongly influenced how much time and effort students invested in their blended learning experiences. Students with positive attitudes and higher self-confidence were more inclined to participate actively, try new learning strategies, and derive satisfaction from completing tasks. A positive attitudinal state also enhanced students' enthusiasm and commitment to learning.</p> <p>In conclusion, learning preferences are critical in shaping student engagement in blended learning environments. Understanding and addressing students' learning needs can improve their motivation, engagement, and overall learning outcomes. The study recommends incorporating a comprehensive blended learning guide into the institution's professional development plans to better align instructional strategies with student preferences. Future research could explore interventions tailored to different learning styles and preferences to enhance engagement in blended learning settings further.</p> <p>Keywords: blended learning, student engagement, demographic factors, learning preferences, technological integration</p>	

CODE	EACCIMRC-4-102
TITLE: CRISIS PROOFING STRATEGIES OF SCHOOL ADMINISTRATORS FOR LEARNING CONTINUITY DURING THE CORONACENE EDUCATION TOWARDS A FRAMEWORK	
AUTHOR/S: Larry F. Cajelo, Emerlyn E. Managuas, PhD	
AFFILIATION/INSTITUTION/S: 1) Faculty, Luis Y. Ferrer, Jr. North National High School, General Trias City, Cavite 2) Dean, College of Education, Arts, and Sciences, Cluster Dean, Humanities, University of Perpetual Help System – Dalta, Las Piñas City	
ABSTRACT <p>In times of volatility, uncertainty, complexity, ambiguity, and disruptions, the school leaders are uniquely challenged to respond to the unprecedented global health crisis, to adapt and be flexible for the continuity of learning and on what the coronacene education needed today. The study, Crisis-Proofing Strategies of School Administrators for Learning Continuity During the Coronacene Education Towards a Framework, mixed-method approach was employed and facilitated with an explanatory sequential mixed method research design. Random sampling was used to determine the 222 Junior High School teacher-respondents and 25 administrator-respondents and purposive sampling to identify the eight school administrators and junior high school teachers as co-participants. Survey questionnaire was used to gather the quantitative data and interview plan for the qualitative data. Findings of the study revealed that the crisis proofing strategies with respect to the six dimensions are the following: on safe operations – continuous campaign on health and safety and improved ventilation of classroom; on well-being and protection - impose minimum health standards; on quality teaching and learning -curriculum implementation are monitored and evaluated; on provision of learning resources - ensure 1:1 ratio of learning materials and ensure training workshop; on reaching marginalized – advocate gender sensitivity and responsiveness to children with differentiated needs; and on education financing – ensure the completeness of documents and set immediate priority actions for school system recovery and strengthening. Thematic data analysis revealed three emergent themes in the six dimensions of the learning continuity plan: Adapting to Distance Learning Modalities, Initiate Appropriate Interventions, and Accelerating Teacher Support in Pandemic and Beyond were revealed. It was concluded that crisis-proofing strategies that guided the schools on safely managing school reopening are very helpful in ensuring the safety and health of the school community while taking in-person classes. A proposed framework which is the output of the study is recommended to be considered by administrators in crisis proofing their schools to provide essential educational services in the midst of emergency situations to ensure undisrupted education.</p>	
Keywords: Crisis-proofing strategies, Coronacene education, Learning continuity, School administrators	

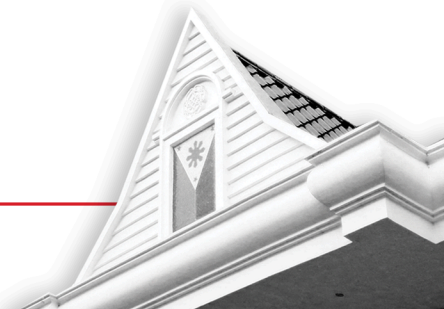




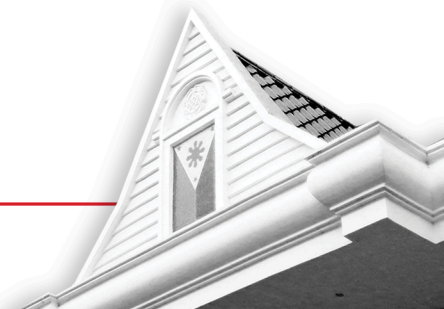
ABSTRACTS

STUDENTS

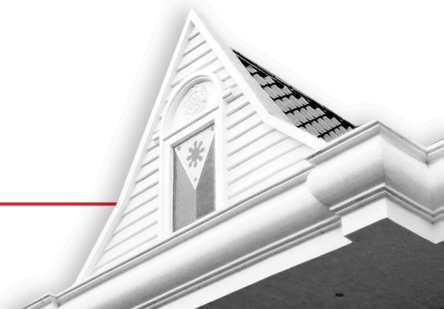
CODE	EACCIMRC-4-009
TITLE: A Structural Equation Model on Nursing Students Research Competency and Utilization of Evidence-Based Practice (EBP)	
AUTHOR/S: Joergette Mae D. De Guzman, Lara Jane G. Calpo, Richmond Kyle G. Curameng, Bryan Jason R. Espinosa, Danielle Jane T. Magbanua, Mariana A. Marasigan, Vernice Faye M. Ortega, Katrina Cassandra R. Reyes, Cherry Mae T. Tañedo	
AFFILIATION/INSTITUTION/S: Marian School of Nursing, Emilio Aguinaldo College-Manila, Metro Manila	
<p>ABSTRACT</p> <p>This study explores the relationship between nursing students' use of Evidence-Based Practice (EBP) and their research skills, addressing gaps in nursing education. The objective is to assess how EBP is currently integrated into nursing education, examine the link between research skills and Evidence-Based Practice (EBP) utilization, and develop a model incorporating factors that impact both research competence and Evidence-Based Practice (EBP) use. Using a cross-sectional correlational design and Structural Equation Modeling (SEM), the study surveyed 476 nursing students from Emilio Aguinaldo College in Manila, with participants completing the Research Competency Scale-Nursing (RCS-N) and the Evidence-Based Practice Questionnaire. Results showed that students had moderate research skills, averaging a score of 58.69, and demonstrated moderate-high Evidence-Based Practice (EBP) competence with a mean score of 4.55. A positive relationship was found between research skills and both the practice and knowledge dimensions of Evidence-Based Practice (EBP) competence, though the attitude component showed a minor, non-significant negative correlation. The study's proposed model further clarifies the interactions between various Evidence-Based Practice (EBP) aspects and research skills, underscoring the need for a strong foundation in Evidence-Based Practice (EBP) within nursing education to enhance students' research capabilities and clinical competence. This research highlights the significance of integrating Evidence-Based Practice (EBP) concepts in nursing curricula to better prepare students as effective researchers and evidence-based practitioners.</p>	
Keywords: Application, Evidence-Based Practice, Emerging Model, Research Competency, Structural Equation Model, Utilization	



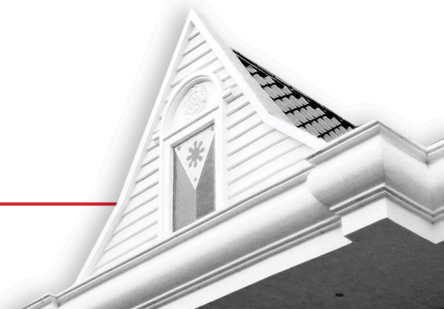
CODE	EACCIMRC-4-010
TITLE: Impostor Syndrome And Academic Performance Among Nursing Students In A Private Higher Institution	
AUTHOR/S: Marcelo, Ace Marc Francois C., Napa, John Andrei S., Oledan, Justine Faith A., Reyes, Charise Vivien D., Suicon, Ira Alexandra A., Tatoy, Sachi Daniella E., Tuliao, Maureen Elizabeth P., Volante, Ayumi L., Wang, Veancy F.	
AFFILIATION/INSTITUTION/S: School of Education, Emilio Aguinaldo College-Manila San Marcelino Street Manila City, Metro Manila	
<p>ABSTRACT</p> <p>This study investigated the prevalence of impostor syndrome among second to fourth-year nursing students at Emilio Aguinaldo College- Manila, aiming to study its potential correlation with academic performance. Using a quantitative descriptive-correlation research design, 190 respondents were selected randomly. The Clance Impostor Phenomenon Scale was utilized to assess impostor syndrome prevalence among participants. Results revealed that impostor syndrome was prevalent among the respondents, with 102 out of 190 participants (54%) exhibited impostor phenomenon. Specifically, 56 participants (29%) scored moderate impostorism, while 28 (15%) experienced intense feelings of impostorism. Only 4 participants (2%) showed low impostor characteristics. In contrast, academic performance showed a positive outlook among the respondents, 134 (70.53%), rated their performance between 1.75 to 2.00, indicating confidence in their academic capabilities. Additionally, 32 respondents (16.84%) fell within the range of 2.25 to 2.50, suggesting a balanced academic performance. However, 19 respondents (10%) perceived their performance as high (within 1.25 to 1.50), while 5 (2.63%) are rated in a moderately low range (2.75 to 3.00). Statistical analysis indicated a non-significant correlation between impostor syndrome and academic performance, with a p-value of 0.909 and a Pearson correlation coefficient (R) of -0.808. These findings suggest that while impostor syndrome is prevalent among nursing students, it has no relationship with their academic performance based on the study's results. Based on these results, the study has suggested implementing a Mental Health Gap Action Program (MHGAP) to support individuals showing signs of impostor syndrome and provide appropriate assistance as needed.</p>	
Keywords: Prevalence, Nursing Students, Correlation, Mental Health Gap Action Program (MHGAP, Emilio Aguinaldo College- Manila	



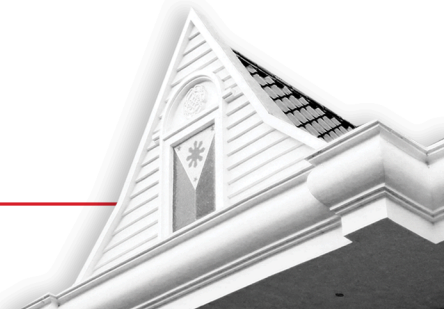
CODE	EACCIMRC-4-011
TITLE: The Impact of Calcium Initiative (Ca-In) Program on Parental Compliance: A Quasi-experimental Study	
AUTHOR/S: Elijah Arvhin M. Mendoza, Mikee Nathalie R. De Los Santos, Alyssa Ricci B. Domingo, Gail Michelle F. Erese, Andrea L. Maungca, Arielle Ann A. Ortuoste, Safiya M. Ouabed, Frances Diamond M. Pineda, Amber Jane M. Riel, Jermaine C. Sivilla	
AFFILIATION/INSTITUTION/S: Marian School of Nursing, Emilio Aguinaldo College-Manila, 1113-1117, San Marcelino St., Paco, Manila	
<p>ABSTRACT</p> <p>Calcium alongside other micronutrients is an essential nutritional component that is fundamental to ensuring bone health and development in children. This study aimed to assess the difference in parental compliance with dietary calcium meal plans after Calcium Initiative (Ca-In) program implementation while identifying compliance variations based on demographic profile. The researchers utilized a quantitative quasi-experimental design, specifically a single-group pre-and post-intervention approach to evaluate compliance. A snowball sampling technique was employed to recruit parents with early school-aged children from the locale, leveraging their network and referrals to expand the sample size. The intervention was structured to provide valuable insights into dietary calcium practices through an information triad — Calcium Micronutrient Briefer, Calcium Basket Video, and Calcium Wheel Pamphlet.</p> <p>Pre-intervention dietary calcium meal plan compliance averaged $\bar{x}=2.623$. Strikingly, the post-intervention compliance increased by 0.377, demonstrating moderate compliance, although demographic factors revealed no significant impact on compliance levels. Building on these findings, a comprehensive campaign was crafted to enhance parental education initiatives to optimize and sustain dietary adherence in community health settings. The study advances the discourse on preventive child health and underscores the potential of targeted health education programs in mitigating nutrient deficiencies. Scaling such interventions across underserved communities could further integrate calcium dietary practices into primary health promotion. Future studies should focus on increasing the sample size and applying rigorous probability sampling techniques to enhance the generalizability and transferability of the results. Hence, this research is epitomized by the maxim 'Healthy Children, Healthy Communities, Healthy Society.'</p>	
Keywords: Prevalence, Nursing Students, Correlation, Mental Health Gap Action Program (MHGAP, Emilio Aguinaldo College- Manila	



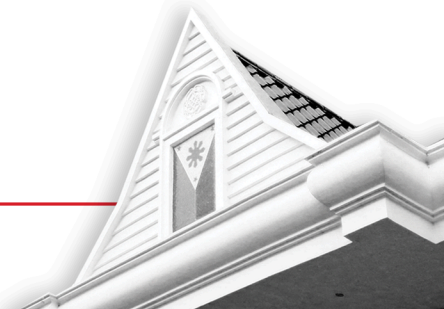
CODE	EACCIMRC-4-021
TITLE: RISK BEHAVIOUR AND HEPATITIS B CASE ANALYSIS AMONG PERSONS DEPRIVED OF LIBERTY (PDLs) SITUATED INSIDE A CITY JAIL – MALE DORMITORY	
AUTHOR/S: : France Liezbeth C. De Villa, Hazel Ann Escanilla, Yden Gabriel B. Fernandez, Ali Garino	
AFFILIATION/INSTITUTION/S: School of Nursing, Emilio Aguinaldo College Cavite City of Dasmariñas, Cavite	
<p>ABSTRACT</p> <p>The study aimed to explore the Hepatitis B Virus (HBV) risk behaviours being performed by Persons Deprived of Liberty (PDLs) inside a City Jail - Male Dormitory, which would forge baseline data that would prompt correctional facilities to understand the disease and its aggravating factors further, encouraging them to take appropriate measures to grapple with the issue. The research conducted is a quantitative non-experimental design, utilizing a retrospective cohort study designed to collect data from 312 Male PDLs situated inside a City Jail – Male Dormitory in Cavite, considering their age, civil status, educational attainment, length of stay, knowledge, awareness, risk behaviour performance, and the likelihood of repeated risk behaviour performance. Careful ethical practices were considered and applied for ethics review encompassing voluntary participation, right to information, confidentiality, and anonymity. The findings show that while age significantly correlated with knowledge levels and educational attainment ($P < 0.05$), civil status and length of stay did not directly impact knowledge acquisition ($P \geq 0.05$). Despite the high level of knowledge among PDLs, risk behaviour performance remains prevalent, particularly in behaviours such as sharing personal hygiene paraphernalia and engaging in sexual activities. The following conclusions can be drawn from that the Risk Behaviors of PDLs in the focus City Jail are shown to be of high risk due to the prevalence of hygiene product sharing, homosexuality, polygamous sexual acts, and alcohol consumption. These are generally caused by a lack of awareness of their current health status and the difficulty in adjustment inside the prison, as most of the respondents are staying inside the prisons for only less than 24 months. Furthermore, these behaviours are shown to be repeated over the next month based on the answers taken from the likelihood of repeated behaviour section of the questionnaire interpreted with Very Likely. The study recommends the application of the government budget to allocate health preventive measures to BJMP, levelling up of health seminars into interactive health services for PDL from Jail Health officers, and widening of study scope for future researchers.</p>	
Keywords: Hepatitis B, Risk Behavior, performance, PDLs, City Jail	



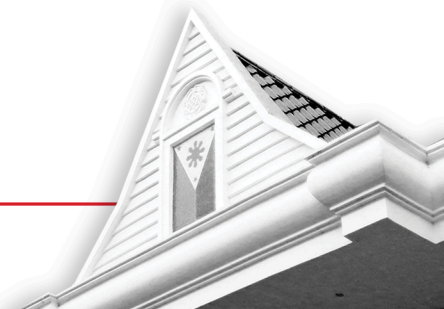
CODE	EACCIMRC-4-064
TITLE: Budgeting and Spending Habits Among Third-Year and Fourth-Year Dentistry Students of the University of Baguio	
AUTHOR/S: Jesmin D. Geronda, Jaimelyn Fe A. Martinez, Zyra L. Apolonio, Erica R. Buking, Dahanna Jasmine M. Joson, Philip Louis B. Policarpio, Kirsten Anne O. Ramiscal, Christine Marie F. Rillera	
AFFILIATION/INSTITUTION/S: School of Dentistry, University of Baguio, General Luna, Baguio City, 2600	
ABSTRACT <p>Student budgeting habits refer to how students manage their expenses to avoid an allowance shortage. Budgeting allowances is one of most students' problems. Though some tend to properly manage their allowances, others do not. This research aimed to provide emphasis and awareness regarding the vitality of budgeting strategies in a student's daily financial management, particularly for third and fourth year dental students. A few factors in their spending habits have contributed to how they budget their finances, causing an inability to allocate separate funds for personal or academic future emergency expenses. The main objective of this study is to determine the budgeting and spending habits of third- and fourth-year dentistry students at the University of Baguio. This research focuses on the sample study with a total of 126 third-year students and 125 fourth-year students. The study utilized ANOVA and t-tests for data analysis. Statistical computation of the data shows that all students, regardless of gender, make good financial choices regarding their spending and budgeting practices. Both third- and fourth-year dentistry students at the University of Baguio manage their allowances adequately. Different socioeconomic backgrounds exhibit different financial behaviors. However, intervention may help them change their spending patterns by compelling them to establish and put aside additional resources for emergency accounts. The researchers recommend conducting future studies to determine the precise financial status of educational prerequisites and their allotted allowances to further elucidate the students' financial knowledge and awareness.</p>	
Keywords: allowance, financial management, expenses, resources, socioeconomic	



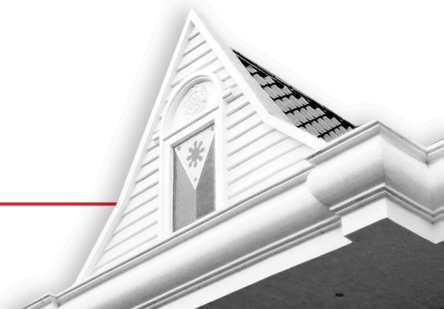
CODE	EACCIMRC-4-067
TITLE: Family-Related Factors Contributing to the Dental Fear and Anxiety of Grade 6 Pupils in Bakakeng Elementary School	
AUTHOR/S: Jesse Jericho E. Go, Blessie Glaze L. Camacho, Diah Erika D. Guanzon, Frency May B. Nazul, Gia Isabel D. Nepomuceno, Elisa Bianca Tagudar, Jairus D. Villa Agustin, Maria Lourdes E. Cantor, Irish Anthony G. Mascareñas	
AFFILIATION/INSTITUTION/S: School of Dentistry, University of Baguio, Baguio City, Benguet	
ABSTRACT <p>This study aimed to investigate the family-related factors that contribute to children's dental fear and anxiety and the strategies parents employ to minimize or avoid these negative emotions. The research was conducted through a case study approach, utilizing qualitative research methods. The study identified several factors that contribute to dental fear and anxiety, including financial constraints, parental anxiety and fear towards dental visits, personal history of dental fear, and witnessing negative dental experiences of others. The research suggests that interventions such as increasing access to affordable dental care, improving dental health education, and employing behavioral management techniques can help address these factors.</p> <p>The study highlights the impact of family-related factors on children's dental fear and anxiety and provides strategies for parents to mitigate these negative emotions. Regular dental check-ups, creating a child-friendly environment, and debunking myths surrounding dental procedures are effective strategies for parents to minimize dental fear and anxiety in children. Encouraging early dental visits, promoting positive reinforcement techniques, and providing age-appropriate education can also help children become more comfortable with dental visits.</p> <p>In conclusion, this study emphasizes the importance of addressing family-related factors that contribute to dental fear and anxiety in children. Dental professionals, parents, and caregivers can play a crucial role in promoting lifelong oral health and preventing the development of dental fear and anxiety in children. The study provides several implications for further research, including understanding the role of culture in dental fear and anxiety and developing new strategies and interventions to address this issue.</p>	
Keywords: Parental influence, Pediatric dentistry, dental care, Behavioral management techniques, Dental health education	



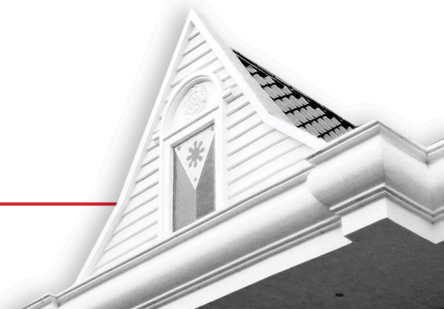
CODE	EACCIMRC-4-068
TITLE: Perceptions of Dentistry Clinicians who have Undergone the Flexible Learning Approach on their Skills in Handling Actual Patients	
AUTHOR/S: Loise Ann Karla A. Lao, Aerae A. Andres, Czyrheeze G. Binwag, Khim Melody D. Chan, Joana Kaye T. Cordero, Krizzia Anne G. Dasig, Troy Kristoffer G. Jara, Vanessa Caryl O. Marcos, Dr. Maria Lourders E. Cantor, Antonio Fernandez Jr.	
AFFILIATION/INSTITUTION/S: School of Dentistry, University of Baguio, Baguio City	
ABSTRACT Clinical dentistry involves skills in management and handling of patients. The utilization of the flexible learning approach due to the pandemic led to the clinicians doing simulations and handling models instead of live patients. This study determined the perceptions of dentistry clinicians who have undergone the flexible learning approach on their skills in handling actual patients, specifically on their level of confidence and readiness. Results of this study can serve as basis in improving instruction to enhance the skills of the clinicians in handling actual patients. This descriptive, quantitative study involved 118 clinicians as respondents. A validated and reliability tested tool was utilized. Weighted mean, t-test, and analysis of variance were used to analyze the data. Clinicians were more confident in post-operative management and least confident in oral surgery. Male clinicians and level 4 clinicians had higher level of confidence. The clinicians had higher level of readiness in restorative dentistry and lowest in endodontic therapy. There was no significant difference in the level of readiness according to gender and clinical level. The results show that clinicians have lower level of confidence and readiness for the more complex and difficult procedures that also pose higher risk of treatment complications. There is a need to provide more exposure and enhanced training in the complex and difficult procedures to boost the confidence and readiness of the clinicians.	
Keywords: COVID-19, Confidence, Readiness, Post-operative management, Oral surgery, Restorative dentistry, Endodontic therapy	



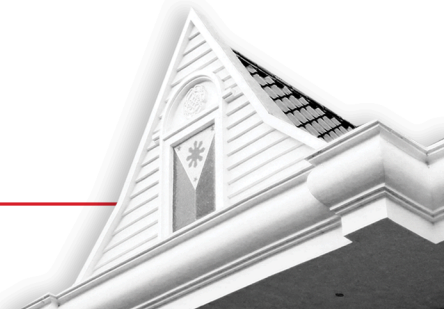
COD E	EACCIMRC-4-069
TITLE: PERCEPTIONS ON THE DELIVERY OF ORAL HEALTHCARE SERVICES OF LOCAL GOVERNMENT UNITS IN FIFTEEN DISTRICT HEALTH CENTERS OF BAGUIO CITY	
AUTHOR/S: Barcena, Hyssel Joyce M., Dela Paz, Felice Ann M., Galang, Krisha Jane M., Labawig, Demi Loiese C., Lopez, Caila R., Poj-agan, Michelle Joy L., Tumacdang, Chloe Kleitz D.	
AFFILIATION/INSTITUTION/S: Barcena, Hyssel Joyce M., Dela Paz, Felice Ann M., Galang, Krisha Jane M., Labawig, Demi Loiese C., Lopez, Caila R., Poj-agan, Michelle Joy L., Tumacdang, Chloe Kleitz D.	
ABSTRACT Oral diseases remain a significant public health threat in the Philippines. The government with the help of healthcare professionals continues to find solutions to eradicate this problem. Numerous studies and investigations were used to conceptualize this study. Identifying a patient's insight to assess the quality of oral health services is necessary to acknowledge the need for improvement in the delivery of dental services. The study intended to evaluate the oral healthcare services provided by Local Government Units, their extent of implementation, frequency, satisfaction levels, and the implications of oral health promotion and service delivery to community citizens. With the use of quantitative-descriptive research, twenty four residents from fifteen health districts were randomly selected using convenience sampling and a survey questionnaire was utilized to collect data. The study resulted in a disparity of implementation, frequency and satisfaction of residents in terms of receiving dental services. However, these aspects also correlate to the shortage of resources, manpower and several factors that affect the efficiency of the delivery dental services. Oral health significantly influences one's life. A well-balanced healthcare system, not only focuses on one aspect but instead addresses all facets of an individual's health and gives emphasis in prioritizing a holistic wellness.	
Keywords: Oral Diseases, Extent of Implementation, Frequency, Level of Satisfaction, Insights	



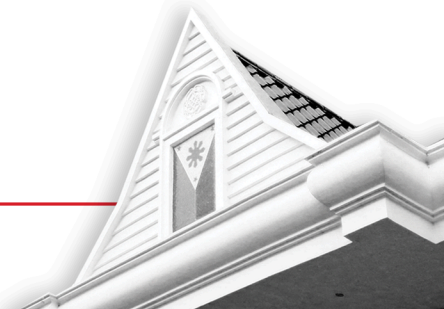
CODE	EACCIMRC-4-071
TITLE: Use of Audio-Visual Aids as an Assessment Tool for Dental Fear and Anxiety Among 8-12 y/o Children	
AUTHOR/S: Beatricia G. Navor, Alyka Jade D. Salida, Andrea Kay DL. Bantigue, Arwin Rel T. Nucup, John Bernard B. Tavermin, Kristine Marlie P. Galang, Nicole Kate S. Paray, Remy Mae Q. Zalun, Ronella Eden T. Navarro, Dr. Maria Lourdes E. Cantor, Irish Anthony G. Mascareñas	
AFFILIATION/INSTITUTION/S: School of Dentistry, University of Baguio, Baguio City	
<p>ABSTRACT</p> <p>Dental fear and anxiety(DFA) are prevalent problems in dentistry and frequently become significant obstacles to the oral health of children because of avoidance of dental treatment which has become a major dilemma in paediatric dental practice. Assessment of the factors affecting DFA is important in order to provide the best behavioural management method. The aim of this study was to determine if audio-visual aid is an effective assessment tool for DFA among children in Baguio City, Philippines. The study used audio-visual aid simulating dental treatment and the Children's Fear Survey Schedule-Dental Subscale (CFSS-DS). The children answered the CFSS-DS before and after watching the audio-visual aid. The average score of the children in the CFSS-DS translates to "very little afraid" and the proponents observation during the visual aid presentation translates to "very little afraid". Of the listed factors, the students exhibited no fear except for five items where they displayed very little fear namely, injections, blood, and drilling related items. The results of the questionnaire and observational chart have a little significant difference which falls under the same scale, thus, it shows that the audio visual aid is a viable assessment tool for DFA. This study also provides data on the levels of DFA of the students and suggested behavioural management methods.</p>	
Keywords: Pediatric, Dentistry, Stress-inducing Triggers, Multi Sensory Evaluation. Children's Fear Survey Schedule-Dental Subscale, Behavioral Management	



CODE	EACCIMRC-4-080
TITLE: ORAL HEALTH RISK AWARENESS OF PEOPLE PRACTICING BETEL NUT CHEWING IN SITIO-5, TADIANGAN, TUBA, BENGUET	
AUTHOR/S: Joi Mari Angelique A. Mina, Audrey Dhane S. Abad, Claire A. Babkeg, Jurdelyn K. Caga, Yvonne Baban M. Lingayo, Marina L. Mariano, Rhealyn P. Mek-eng, Prencess Jeresa P. Puyongan, Arturo L. Baday, Maria Lourdes E. Cantor	
AFFILIATION/INSTITUTION/S: School of Dentistry, University of Baguio, Baguio City	
<p>ABSTRACT</p> <p>Regular chewers of betel leaf and areca nut have increased risk of developing a range of serious diseases, including oral and esophageal cancer. This study determined the awareness of betel nut chewers on the oral health risks of betel nut chewing. This descriptive, quantitative study involved 100 active betel nut chewers. A validated and reliability tested tool was utilized. Weighted mean was used to determine the oral health risks on hard and soft tissues (teeth and gums). Analysis of variance was used to compare level of awareness according to age, duration of chewing, gender, and frequency of chewing. There is high awareness on oral health risks on hard and soft tissues. There is no significant difference in awareness according to duration, age and frequency of chewing. Males are more aware of the risks of betel nut chewing. The respondents have adequate knowledge on the oral health risks of betel nut chewing yet they still practice it. There is a need to enhance oral health programs and campaigns on the effects of betel nut chewing on the teeth and gums. Further studies should be conducted to understand the motivations to continue chewing betel nut despite high awareness on the oral health risks.</p>	
Keywords: Descriptive Survey, Quantitative, Hard tissues, Soft tissues, Oral diseases	



CODE	EACCIMRC-4-085
TITLE: Stability Testing of Complete Blood Count Parameters Using Pentra ES 60 Analyzer	
AUTHOR/S: : Sophia Marie M. Cortez, Jovelle Marie D. Aguas, Sofia Ysabel R. Jonson, Janelle Francesca A. Leh, Mark Phillip G. Turingan, Kirsten Folen L. Wallat, Andrea Isabel W. Yap, and Mark Raymund G. Nava	
AFFILIATION/INSTITUTION/S: Department of Medical Technology - Faculty of Pharmacy, University of Santo Tomas, Manila	
ABSTRACT Clinical Laboratories receive numerous samples to run daily. Despite the heavy workload, a Medical Technologist must be thorough, especially in the pre-analytical phase, where up to 70% of laboratory errors occur. According to standard protocol, complete blood count specimens stored at room temperature must be tested within 6 hours and 24 hours when stored at refrigerator temperature. This stability testing study aims to determine the stability of different complete blood count parameters at varied storage times and temperatures, in which results are acceptable and not significantly changed using the Pentra ES 60 analyzer. Specimens were stored at room temperature (22-25°C) and 6°C and tested at time 0, the fourth hour, and the eighth hour of storage. The study utilized a non-probability sampling method with 14 males and 12 females recruited for blood extraction. Specimens were then aliquoted and tested using the Pentra ES 60 analyzer at different times. The findings suggest that most parameters remained stable at both room temperature and 6°C for up to eight hours, except MCHC, which was unstable at the eighth hour, and MPV which was unstable at the fourth and eighth hour, for both temperatures. This study may provide clinical laboratories with additional insights into the processing time and storage conditions of complete blood count samples and improve healthcare protocols, especially when delays in testing are expected. Pre-analytical errors were minimized to ensure the accuracy and credibility of test results.	
Keywords: Sample stability, Storage time, Storage temperature, Hematology analyzer, Blood cell parameters	





EMILIO AGUINALDO COLLEGE CAVITE

FAST FACTS

DEREGULATED

BOARD PERFORMANCE (2022-2023)

- 100%** Real Estate Appraisers Licensure Examination (Sept 2023, Aug 2024)
- 100%** Dentists Licensure Examination (June 2024)
- 100%*** Nurse Licensure Examination (May 2024)
- 100%** Real Estate Brokers Licensure Examination (April 2024)
- 100%*** Licensure Examination for Teachers (Elementary and Secondary) (March 2024)
- 100%** Respiratory Therapist Licensure Examination (Feb 2023, Feb 2024)
- 100%** Midwife Licensure Examination (Nov 2023)
- 100%*** Psychometrician Licensure Examination (Aug 2023)
- 100%*** Physical Therapist Licensure Examination (June 2023)

* First Time Takers



TOP 1
Respiratory Therapist
Licensure Examination
February 2023
Elaine Fleur U. Fino, RTRP



TOP 4
Radiologic Technologists
Licensure Examination
December 2023
Luz Mikaella A. Gabales, RRT



TOP 5
Medical Technologist
Licensure Examination
March 2022
Trishia Joyce M. Calungsod, RMT



TOP 6
Dentist Licensure
Examination
January 2022
Jean Camille D. Peralta, DMD

TOP 6
Real Estate Brokers
Licensure Examination
April 2023

TOP 8
Real Estate
Appraisers
Licensure
Examination
September 2022
Randolph F. Alvarez, REA, REB



TOP 7
Real Estate Brokers
Licensure Examination
April 2024

TOP 3
Real Estate
Appraisers
Licensure
Examination
August 2024
Christelle S. Fabelloro, REB, REA



ALUMNI TESTIMONIES

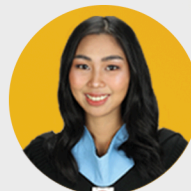


“ My mentors in EAC have molded me to become the leader I am now. ”

Kevin Fritz Pascua, ASCP
BS Medical Technology, Class of 2016
Gen. Lab Supervisor, Stanford Health, California, USA

“ I wouldn't have made it this far, if it hadn't been for EAC. ”

Atty. Jeffrey B. Bajita
BS Criminology, Class of 2007
October 2007 Criminologist Board Topnotcher (Top 1)
Faculty, EACC School of Criminology



“ EACC honed me to pursue excellence whenever and wherever I will be. ”

Elaine Fleur U. Fino, RTRP
BS Respiratory Therapy, Class of 2023
February 2023 Respiratory Therapist Board Topnotcher (Top 1)

PACUCOA ACCREDITATION STATUS as of September 2024

LEVEL III

BS Psychology (RA)
Bachelor of Secondary Education (RA)
Bachelor of Elementary Education (RA)
BS Business Administration (RA)

LEVEL II

BS Criminology (RA)
BS Nursing (RA)
BS Hospitality Management (RA)
BS Radiologic Technology (1st RA)
BS Medical Technology (1st RA)

LEVEL I

BS Computer Engineering
BS Midwifery
BS Customs Administration
BS Physical Therapy
BA Communication

EACC's

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is a duly Legal Education Board (LEB) accredited law school in Cavite



WORLDWIDE QUALITY ASSESSMENT
ISO 9001:2015 CERTIFIED

ISO



440

INDUSTRY PARTNERS

*as of October 2024



SOCIAL MEDIA FOLLOWERS
*as of October 2024

75K

EXCELLENT ACADEMIC CULTURE



EXCITING STUDENT LIFE



ATED STATUS

granted by CHED and
effective until
September 15, 2027

3 GUIDING
STARS
★ VIRTUE
★ EXCELLENCE
★ SERVICE

**EACC
BY THE
NUMBERS**

2.9K

Emilian scholars and
discount beneficiaries

45M+

financial aid
are awarded every year

16K+

total graduates
since 1999

40:1

STUDENT TO
FACULTY RATIO

RISING SOON:

BUILDING 8

ACADEMIC PROGRAMS

30 UNDERGRADUATE
PROGRAMS
6 SENIOR HIGH
SCHOOL STRANDS

Accountancy
Accounting Information System
Business Administration
Civil Engineering
Communication
Computer Engineering
Computer Science
Criminology
Customs Administration
Dental Medicine
Education
Electrical Engineering
Electronics Engineering
Hospitality Management
Mechanical Engineering
Medical Biology
Medical Technology
Midwifery
Nursing
Optometry
Pharmacy
Physical Therapy
Psychology
Radiologic Technology
Real Estate Management
Respiratory Therapy
Tourism Management

Academic Track

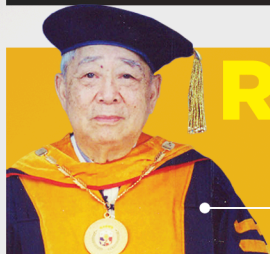
- ABM
- HUMSS
- STEM

TVL Track

- ICT
- HE 1
- HE 2

Located at the heart of
City of Dasmariñas, Cavite

Around 30km away from Manila



RICH HISTORY

DR. PAULO C. CAMPOS

Founder, Emilio Aguinaldo College

National Scientist of the Philippines
Father of Nuclear Medicine in the Philippines

12,000+
EMILIANS ENROLLED
(SY 2024-2025)



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Science Laboratories
with Basement
and Roof Deck



FAST FACTS

**EMILIO AGUINALDO
COLLEGE CAVITE**





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