



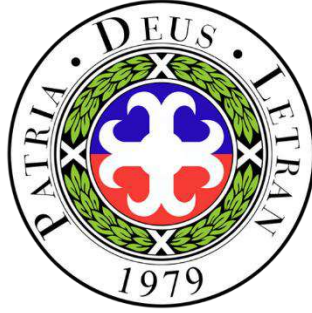
RESEARCH COMPENDIUM

Colegio de San Juan de Letran Calamba

ACADEMIC YEAR 2023-2024



RESEARCH DEPARTMENT



Colegio de San Juan de Letran Calamba

RESEARCH COMPENDIUM

ACADEMIC YEAR 2023-2024

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Research Department

FOREWORD

This collection of research papers presented in poster presentation format showcase the diverse and innovative projects undertaken by students from different programs of Colegio de San Juan de Letran Calamba for Academic Year 2023-2024. These diverse projects represent the intellectual rigor and innovative thinking fostered within our academic community.

Within these pages, readers will discover a rich tapestry of investigations. Our business students delved into the intricacies of financial stability for local businesses, explored the impact of digital payment systems, analyzed financial literacy among students, and assessed tax compliance. Their entrepreneurial spirit shines through in feasibility studies for cafes, food products, and innovative business ventures, demonstrating a keen understanding of market dynamics and consumer needs.

The School of Computer Studies and Technology presents a collection of cutting-edge projects. From real-time eye gaze tracking and emotion detection for online classes to the development of mobile applications for language acquisition, healthcare, and cognitive learning, these works highlight the students' technical skills and commitment to addressing real-world challenges. Their explorations into sentiment analysis, image processing, and augmented reality further demonstrate their mastery of emerging technologies.

Our students from the School of Education, Arts, and Sciences contributed valuable research on topics ranging from communication strategies for teenage pregnancy prevention to the influence of internet-based media. They examined the complexities of online shopping satisfaction, the lived experiences of various groups, and the psychological impact of social phenomena. Their work reflects a deep understanding of human behavior and societal issues.

The School of Engineering and Architecture showcases the students' problem-solving abilities and technical expertise. From designing resilient evacuation centers and seismic retrofits to improving ventilation systems and developing sustainable energy

solutions, their projects demonstrated a commitment to creating a safer and more sustainable future. Their feasibility studies on innovative materials and product designs highlighted their ingenuity and practical skills.

Finally, the School of Nursing presents research on the perceived readiness of nursing students for practice, the nutritional status of preschool children, and the mental workload and learning motivation of nursing students. These studies contributed to the efforts to improve healthcare practices and promote well-being within our communities.

This journal stands as a testament to the hard work, creativity, and dedication of Letran Calamba student-researchers.

Arriba, Letran!

Dr. Ma. Xenia Z. Bitera

Senior Director

Research Department and Center for Professional Development

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