



# CAVITE STATE UNIVERSITY



## COLLEGE OF AGRICULTURE, FOOD, ENVIRONMENT AND NATURAL RESOURCES

# RESEARCH



**BACHELOR OF SCIENCE IN AGRICULTURE  
LEVEL IV PHASE II CYCLE 2  
NOVEMBER 8-10, 2023**

### MISSION

CAVITE STATE UNIVERSITY SHALL PROVIDE EXCELLENT, EQUITABLE AND RELEVANT EDUCATIONAL OPPORTUNITIES IN THE ARTS, SCIENCES AND TECHNOLOGY THROUGH QUALITY INSTRUCTION AND RESPONSIVE RESEARCH AND DEVELOPMENT ACTIVITIES. IT SHALL PRODUCE PROFESSIONAL, SKILLED AND MORALLY UPRIGHT INDIVIDUALS FOR GLOBAL COMPETITIVENESS.

### VISION

THE PREMIER UNIVERSITY IN HISTORIC CAVITE GLOBALLY RECOGNIZED FOR EXCELLENCE IN CHARACTER DEVELOPMENT, ACADEMICS, RESEARCH, INNOVATION AND SUSTAINABLE COMMUNITY ENGAGEMENT.



## NARRATIVE PROFILE

### Executive Summary

CvSU REFORM has been the basic guide for research and extension in Cavite State University. It was developed and approved in 2017 after careful deliberation and consultation with the University's varied stakeholders. It presents the framework for the conduct of research and extension activities, a new and responsive organizational structure, road map to becoming a research university, and the thematic areas for the whole CvSU System.

To be able to keep abreast with new international and national development goals, become more relevant in the field of agriculture, and serve to uplift the lives of its stakeholders, the College of Agriculture, Food, Environment, and Natural Resources (CAFENR) developed its new RDE Agenda last July 2023. The agenda envisions the "Promotion of sustainable agriculture, food security, and natural resources management and conservation to alleviate poverty, reduce hunger, foster well-being and good quality of life in land and water, and build climate-resilient communities". The new agenda also outlines the researches to be conducted to attain its goals (Table 1).

The BS Agriculture program, guided by the thematic area on **Agri-Fisheries and Food Security** boasts of 27 completed researches by core faculty, 57 undergraduate theses, 14 international publications (core faculty), 2 student publications to international journals, 9 presentations to international fora, 21 presentations to national fora, 2 patented research outputs, 32 copyrighted materials, 756 publication citations (Scopus and Web of Science), 14 instructional materials (IMDU-certified), 105 activities participated, and 49 research-related awards for the last 5 years. The program is now equipped with renovated nethouses and greenhouses, newly-designated crop production areas, chicken layer house (under renovation), newly-renovated broiler house, hog fattening house and 2 goat houses as both experimental and production facilities.

The program is also maintaining several laboratories: soils laboratory, entomology/insect pest laboratory, food laboratory, water testing building, animal nutrition laboratory and meat processing laboratory. Licensed TURNITIN and SPSS (Statistical Package for the Social Sciences) are also made available to faculty, researchers and students. There are also 26 Best Practices that bring about efficiency in the performance of instruction, research, extension and production functions of its faculty members.

Future research directions were identified: Marker-Assisted Selection, Genetic Conservation, Varietal Development and DNA Fingerprinting of Crops, and Vertical/Urban Farming have been targeted to respond to the ever-increasing and ever-changing needs of the the programs stakeholders.



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**I. CvSU REFORM: *Research and Extension Framework, Operational Structure, Road Map and Agenda***

The mandate of the University does not only revolve on instruction but also includes services through research and extension. As it provides quality education to students, it also innovates and discovers new knowledge addressing the needs of the changing times and the demands of the society. Such knowledge also needs to be enhanced and packaged to be shared to the community and other clientele. These three functions all work together for the improvement of lives of people as CvSU develops into a more globally competitive institution.

The Office of the Vice President for Research and Extension believes that to achieve the goals of the University, some modifications in its current operation must be made, all to function more efficiently as the institution's arm in research and extension. With this, a program entitled REFORM: Research and Extension Framework, Organizational Structure, Roadmap and Agenda was created. It was approved for implementation by virtue of Board Resolution No. 58 s. 2017 signed on September 15, 2017.

**Framework**

This framework sums up the harmonized operation of OVPRE. The objectives and procedures essential to the accomplishment of the goals should be in line with the mission and vision of the University in coordination with all the stakeholders.

The primary goal of OVPRE is to conduct relevant research and extension activities as it strengthens partnership or collaboration/linkages. Innovation and learning also require financial support, hence, the office also generates resources considering efficient asset utilization and improving obligation rate. In its commitment to innovate processes, systems and mechanisms, it continuously provides relevant opportunities in increasing engagement and satisfaction of clients and empowering stakeholders. The impact of all these functions are aimed at improving the quality of lives of the community members.



Figure 1. CvSU R&E Framework shows the research and extension operation of the University at a glance.



**Structure**

*Goals are visions. Manpower makes these visions possible.*

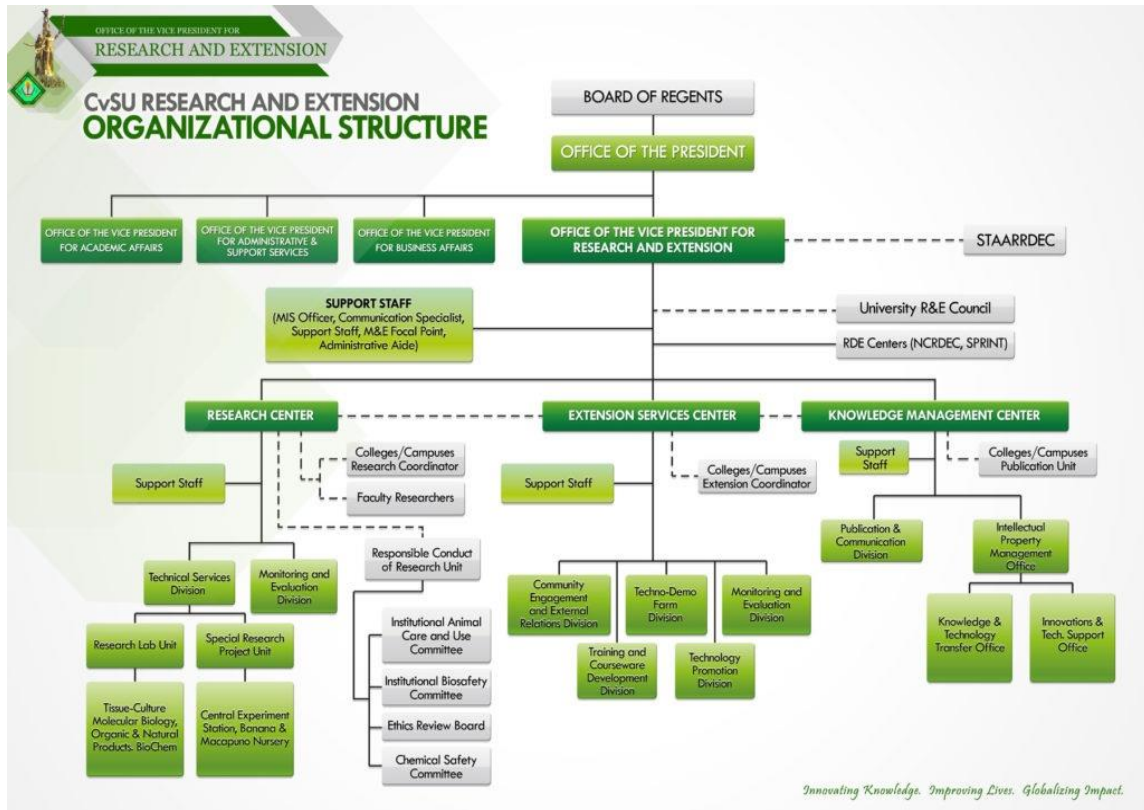


Figure 2. CvSU R&E Organizational Structure presents the various units under OVPRE.

With this, modifications in the organizational structure of the office were made. This structure is an essential component to achieve the harmonized operation of the office ensuring that all units/divisions have no overlapping functions and are working efficiently as the office envisions to improve its services.

The Office of the Vice President for Research, Extension, Continuing Education and Training Services was renamed as Office of the Vice President for Research and Extension. OVPRE is in direct coordination with STAARRDEC, the University Research and Extension Council, NCRDEC and SPRINT. The Office of the Vice President is manned by the Monitoring and Evaluation Focal Point, the Management Information Systems Officer, the Communication Specialist and the Administrative Aides. On the other hand, OVPRE is divided into three major units: Research Center, Extension Services and Knowledge Management Center (the newly created unit).





**Roadmap**

The products envisioned by OVPRE to manifest in the next five years are summed up in a roadmap which sets direction of its operation. The purpose of this roadmap is to set the direction of OVPRE as it commits to fulfilling its purpose and its commitment to CvSU and the community as well.



Figure 3. CvSU R&E Roadmap shows the University’s R&E direction from 2023 to 2028.

This roadmap shall be discussed to the research and extension community of colleges and satellite campuses to promote a harmonized operation as it gears to being a research university in the future. It is a product of a series of consultations with experts from different fields of discipline who are knowledgeable with the various research and extension programs of the University.

**Agenda**

Policies are essential to serve as guiding principles of an organization in the fulfillment of its goals. OVPRE, being the University’s arm in research and extension, sets the thematic areas or the priority areas on which R & E will be focused.

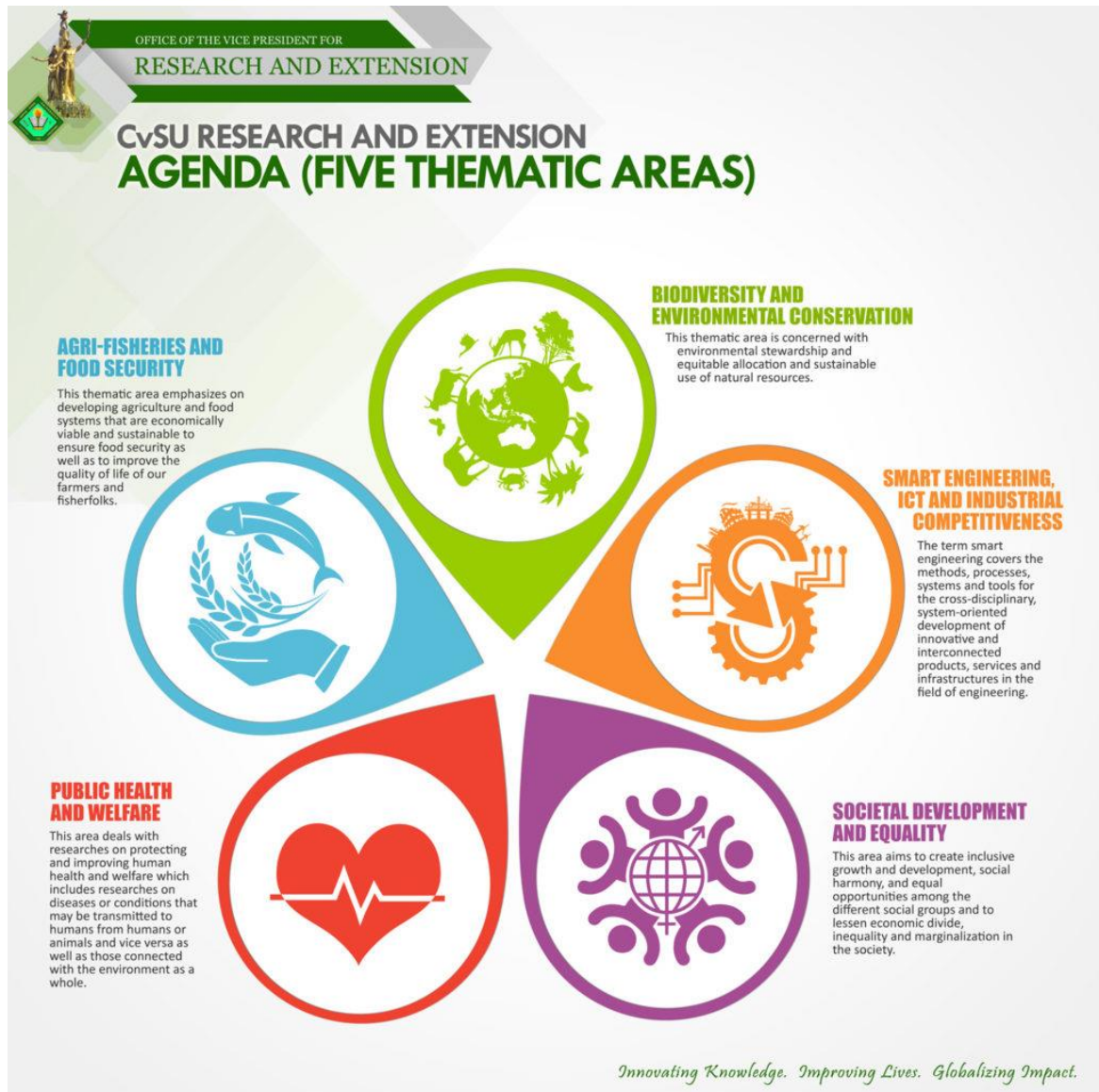


Figure 4. CvSU R&E Agenda presents the thematic areas to which University R&E efforts are anchored.

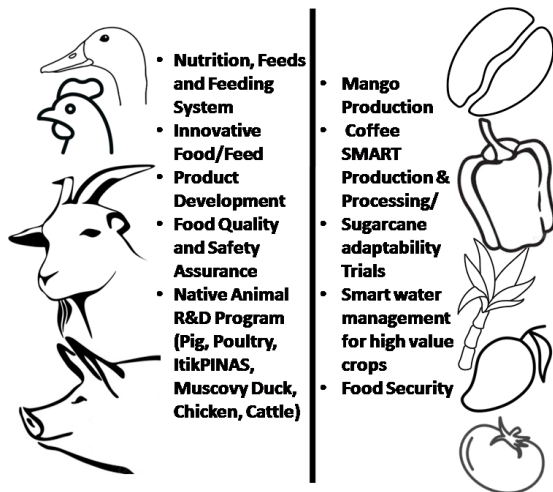
The formulation of the Research and Extension agenda considered the priorities of the University in alignment with the United Nations Sustainable Development Goals, Department of Science and Technology Harmonized National R&D Agenda, Commission on Higher Education National Higher Education Research Agenda and the National Economic Development Authority Development Plan.



**Research and Development Agenda of the BS Agriculture Program**

***“Promotion of sustainable agriculture, food security, and natural resources management and conservation to alleviate poverty, reduce hunger, foster well-being and good quality of life in land and water, and build climate-resilient communities”***

In October 2021, the Department of Science and Technology – Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD) released their Updated Harmonized National Research and Development Agenda (HNRDA) for the Agriculture, Aquatic and Natural Resources (AANR) sector.



The aim of which was to: (guide the national R&D system in the formulation of programs/projects to support AANR development; (2) encourage complementary and purposeful collaborations and partnerships; (3) mobilize and ensure effective and efficient use of resources; and (4) provide framework for developing R&D capacity and expertise.

As a whole-of-government approach, the agenda developed shall be a joint undertaking of public research agencies for the development of the AANR sector. It supports Agriculture 4.0 that is smart, green and S&T-based to promote national and regional AANR productivity, competitiveness and sustainability in order to engender human, environmental and economic resilience.

In response to these changes in the national and regional RDE climate, the College of Agriculture, Food, Environment and Natural Resources (CAFENR) proposed the setting of its RDE Agenda 2022-2028.



Table 1. R&D Agenda for the BS Agriculture Program

PCAARRD/DA-BAR HARMONIZED AGENDA	RESEARCHABLE AREA	PROGRAM/ PROJECT/ STUDY TITLE	PROGRAM/PROJECT/ STUDY LEADER	BUDGETARY REQUIREMENTS (₱)	EXPECTED OUTPUT (6Ps)	TARGET DATE
<b>ANIMAL SCIENCE</b>						
<b>Nutrition, Feeds and Feeding System / Innovative Food/Feed Product Development</b>	Native Non-Conventional Pelleted Feeds	Utilization of Non-Conventional Pelleted Feeds in Farm Animals	Gary A. Pareja, <b>Ma. Cecille N. Basa-Anuada &amp; Karl Louise D. Obispo</b>	2,000,000.00	Commercial Pelleted feeds for farm animals; Publication. Paper Presentation	2024-2025
	Anti-molds in feed	Efficacy Of Schaumasil Supra Nk On Mold Inhibition Of Commercial Layer Feed	<b>Ma. Cecille N. Basa-Anuada</b> & Ma. Fatime I. Cruzada	200,000.00	Publication, Paper Presentation	2023
	Probiotics in Animal Feeds for Odor Elimination	Utilization of Probiotics in Animal Feeds for Odor Elimination	Camilo E. Polinga, Jr. & Gary A. Pareja	2,000,000.00	Commercial Pelleted feeds with probiotics for farm animals; Publication.Paper Presentation	2025-2028
	Yield and nutrient composition and diff forages	Field study for Native Forage Species	Diane D. Olarve, <b>Ma Cecille N. Basa-Anuada</b> & Gary A. Pareja	200,000.00	Yield performance; Publication; Paper Presentation	2024-2028
<b>Food Quality and Safety Assurance</b>	HACCP / Microbiological tests during processing of meat products	Microbiological Testing of Small-Scale Processed Meat Production Systems	<b>Cristina F. Olo</b> , Mariedel L. Autriz & Ma. Fatima I. Cruzada	1,000,000.00	Policy Advocacy; Publication; Paper Presentation	2024-2028



<b>Product Development and Processing</b>	Alternative Meat Jerky	Development of Chevron, Lapan and Quail Jerky	<b>Cristina F. Olo</b> & Mariedel L. Autriz	2,000,000.00	Product Development; Publication; Paper Presentation; Utility Model	2024-2028
<b>Native Animal R&amp;D Program (Pig, Poultry, ItikPINAS, Muscovy Duck, Chicken, Cattle)</b>	BuCorItikPINAS	Assessment of the Production Performance and Profitability of Raising ItikPINAS (IP Kayumanggi) at Bureau of Corrections (BuCor), Muntinlupa City	Gary A. Pareja, Camilo E. Polinga Jr. & <b>Karl Louise D. Obispo</b>	5,000,000.00	<ul style="list-style-type: none"> <li>- At least 1 copyrighted IEC material/promotional material on IP-Kayumanggi egg production</li> <li>- At least 260,000 IP Kayumanggi eggs produced</li> <li>- Technical guidance and training provided to at least 10 BuCor Personnel and 100 PDLs on IP-Kayumanggi management, egg processing and marketing</li> <li>- Partnership agreement between Cavite State University and BuCor, and CvSU and PCAARRD .</li> </ul>	2023-2025



	BuCor Native Pig	Production Performance and Profitability Testing of Purified Native Pig Breeds	<b>Irvin dL. Matel</b> , Camilo E. Polinga, Jr. & <b>Karl Louise D. Obispo</b>	5,000,000.00	<ul style="list-style-type: none"> <li>- At least 2 copyrighted EIC materials/promotional materials, publications</li> <li>- Q-Black native pig farm in BuCor, Muntinlupa</li> <li>- Performance data of Q-Black Native Pig</li> <li>- 480 live animals for Lechon for the initial 2 years of implementation</li> <li>- 12 replacement gilts per year</li> <li>- Established feeding and breeding systems</li> <li>- Technical guidance and training provided to 10 BuCor Personnel and 100 PDL on native pig management and processing</li> <li>- 1 Partnership agreement between BuCOr and Cavite State University and PCAARRD and CvSU</li> </ul>	2023-2025
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**CROP SCIENCE**

Mango Production/ Coffee SMART Production & Processing/ Sugarcane adaptability Trials/ Smart water management for high value crops	Soil and Nutrient management	Soil Fertility Evaluation and Assessment of Varietal Adaptability of Sugarcane ( <i>Saccharumofficina rum L</i> ) in Nasugbu, Batangas	<b>Venus O. Saz</b> & Hamsha R. Saz	12,533,535.00	1.Generation of soil classification map 2.Recommendation of site specific nutrient management & adaptable sugarcane variety to increase productivity 3.Generation of IEC materials 4.Presentation to local, national & international conferences 5.Publication at least 1 research paper in a refereed journal	
	Sugarcane varietal Trials		<b>Venus O. Saz</b> & Hamsha R. Saz			



# CAVITE STATE UNIVERSITY

BACHELOR OF SCIENCE IN AGRICULTURE

LEVEL IV PHASE 2 CYCLE 2 SURVEY VISIT

Food Security	Soil & Nutrient Management	Characterization of Soil Properties and Nutrient Status of the Cavite State University (CVSU) Crop Production Area	<b>Venus O. Saz</b> Hamsha R. Saz	376,050.00	<ol style="list-style-type: none"><li>1. Generation of crop suitability map</li><li>2. Generation of IEC materials</li><li>3. Presentation to local, national and international conferences</li></ol> Publication of at least 1 research paper in a refereed journal	
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<p>Agri-fisheries and Food Security</p>	<p>Sustainable Urban Gardening</p>	<ul style="list-style-type: none"> <li>● Aeroponics,</li> <li>● Aquaponics</li> <li>● Hydroponics</li> <li>● Container gardening</li> <li>● Containerized fruit tree planting</li> <li>● Urban composting</li> <li>● Vertical gardening</li> <li>● Natural/Organic fertilizers</li> <li>● Biopesticides</li> <li>● Biostimulants</li> <li>● Soil amendments</li> <li>● Community seed banking</li> <li>● Development of heat tolerant varieties of vegetables</li> <li>● Management of emerging pest and diseases</li> <li>● Status of Existing crop varieties in urban community</li> <li>● inventory of Indigenous crops/farmer selected varieties</li> <li>● water recycling in urban gardening</li> <li>● Kitchen refuse in urban gardening</li> <li>● bio-intensive gardening</li> <li>● Postharvest handling studies</li> </ul>	<p><b>Edgardo A. Gonzales, Fredelino E. Vecina Jr, Venus O. Saz, Jhon Vincent Caisip, Adolfo C. Manuel Jr, Evelyn O. Singson, Monina Dyan R. Elumba &amp; Abigail P. Daria</b></p>	<p>5,000,000.00</p>	<ol style="list-style-type: none"> <li>1. Generation of crop suitability map</li> <li>2.Generation of IEC materials</li> <li>3. Presentation to local, national and international conferences</li> </ol> <p>Publication of at least 1 research paper in a refereed journal</p>	
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	<p>Climate Resilient Technologies for Urban Agriculture</p>	<ul style="list-style-type: none"> <li>• Inventory of Indigenous crops/farmer selected varieties</li> <li>• water recycling in urban gardening</li> <li>• kitchen refuse in urban gardening</li> <li>• protective gardening/companion planting</li> </ul>	<p><b>Edgardo A.Gonzales, Fredelino E. Vecina Jr, Venus O. Saz, Jhon Vincent Caisip, Adolfo C. Manuel Jr, Evelyn O. Singson, Monina Dyan R. Elumba &amp; Abigail P. Daria</b></p>	<p>3,000,000</p>	<ol style="list-style-type: none"> <li>1. Generation of crop suitability map</li> <li>2.Generation of IEC materials</li> <li>3. Presentation to local, national and international conferences</li> </ol> <p>Publication of at least 1 research paper in a refereed journal</p>	
	<p>Wood Vinegar Research and Development Project</p>		<p><b>Evelyn O. Singson &amp; Monina Dyan R. Elumba</b></p>	<p>2,000,000</p>	<ol style="list-style-type: none"> <li>1. Generation of crop suitability map</li> <li>2.Generation of IEC materials</li> <li>3. Presentation to local, national and international conferences</li> </ol> <p>Publication of at least 1 research paper in a refereed journal</p>	



Table 2a. List of Completed Researches under the Sustainable Development Goals in the Last 5 years

Agencies and Thrusts	Title of Program/ Project	Period of Study
United Nations SDG 2- Zero Hunger	Morphological, Histological And Genetic Diversity Analysis Of Philippine Native And ItikPINAS ( <i>Anas Platyrhynchos</i> L.) Strains	2022-2023
United Nations SDG 2- Zero Hunger	Physiological and Biochemical Responses of Mango ( <i>Mangifera indica</i> L. cv. Carabao) to Melatonin under Chilling Stress	2023
United Nations SDG 2- Zero Hunger	Growth and Yield of Tomato ( <i>Solanum lycopersicum</i> ) Treated with Irradiated Carrageenan Biostimulant in Water Deficit Conditions	2023
United Nations ; SDG 11- Sustainable Cities and Communities	Employer’s Feedback on Bachelor of Science in Agriculture Graduates of Cavite State University	2023
United Nations SDG 2- Zero Hunger	Native Chicken Production System and Consumer Preference in Tangub City, Misamis Occidental, Philippines	2023
United Nations SDG 2- Zero Hunger	Risk of Emergence, Potential Distribution and Management of Papaya Leaf Curl Disease in the Philippines	2023
United Nations SDG 2- Zero Hunger	Effect of Gluconeogenic Precursors in Broiler Diets with Varying Nutrient Densities on the Production Performance, Efficiency of Energy Utilization and Carcass Characteristics	2022
United Nations SDG 2- Zero Hunger	Use of Plant Growth Regulators to Induce Tolerance, Promote Growth and Fruiting Quality of Chili Pepper ( <i>Capsicum frutescens</i> ) in Waterlogged Condition <sup>3</sup>	2022



United Nations	Feasibility Study for the Establishment of the Philippine Agri-Fishery Machinery Assembly and Exhibition Center - EIA Component	2021-2022
SDG 1- No Poverty; SDG 2- Zero Hunger; SDG 11- Sustainable Cities and Communities		
United Nations	Phytoremediation and Effect of Soil Amendments on Chromium and Nickel Uptake in Lowland Rice Soils Affected by Mining Activities	2022
SDG 3- Good Health and Well Being; SDG 15- Life on Land		
United Nations	Bangon Batangas S & T- Based Assistance to Taal Volcano's Internally Displaced Population	2020-2021
SDG 11- Sustainable cities and Communities		
United Nations	Comparative Morphological Analysis Among ItikPINAS Strains And Philippine Native Mallard Ducks ( <i>Anas Platyrhynchos domesticus</i> L.)	2021
SDG 2- Zero Hunger		
United Nations	Research Project: ASEAN-Norwegian Cooperation Project on Local Capacity Building for Reducing Plastic Pollution in the ASEAN Region (ASEANO) - Study 2: Mapping of Sources and Concentration of Plastic Waste Generation in Imus River Watershed	2021
SDG 6- Clean Water and Sanitation; SDG 14- Life Below Water		
United Nations	Relationship Of Energy Balance, And Metabolites (Plasma Cholesterol, Insulin, Glucose, Nefa) As A Measure Of Reproductive Competence Of Nutritionally Challenged Non Descript Pubertal Goats	2017-2021
SDG 2- Zero Hunger		
United Nations	Estrus And Ovulation Predicted By Energy Balance, Body Condition Score And Metabolites (Plasma Cholesterol, Insulin, Glucose, Nefa) Of Nutritionally Challenged Non Descript Pubertal Goats	2017-2021
SDG 2- Zero Hunger		
United Nations	Relationship Of Energy Balance And Body Condition Score As A Measure Of Reproductive Competence Of Nutritionally Challenged Non Descript Pubertal Goats	2017-2021
SDG 2- Zero Hunger		



United Nations	Gender-Based Differentiation Among Ornamental Growers in Silang, Cavite 2019	2019
SDG 5- Gender Equality; SDG 8- Decent Work and Economic Growth		
United Nations	Assessment of Major Point and Non-Point Sources of Water Pollution of Selected Rivers in Cavite	2018-2019
SDG 6- Clean Water and Sanitation; SDG 14- Life Below Water		
United Nations	Environmental Impact Assessment, Cavite State University Main Campus	2018-2019
SDG 6- Clean Water and Sanitation; SDG 14- Life Below Water; SDG 15- Life on Land		
United Nations	Role of Zeolite and Organic Soil Amendments in Enhancing Soil Health in Lowland Rice Soils Affected by Nickel Laterite in Sta. Cruz, Zambales	2017-2018
SDG 3- Good Health and Well Being; SDG 15- Life on Land		
United Nations	Effect of Zeolite and Organic Soil Amendments in Mitigating Chromium Uptake in Lowland Rice Soils Affected by Mining Activities	2017-2018
SDG 3- Good Health and Well Being; SDG 15- Life on Land		
United Nations	Effectiveness of Selected Botanicals Against Coffee Berry Borer, <i>Hypothenemus</i> spp. (Coleoptera, Scolytidae) in <i>Coffea canephora</i> 2018	2018
SDG 2- Zero Hunger		
United Nations	Pesticidal Potential of Selected Botanicals Against Rice Weevil ( <i>Sitophilus oryzae</i> L.) (Coleoptera: Curculionidae) 2018	2018
SDG 2- Zero Hunger		
United Nations	Strategic Human Resource Management and Local Governance Performance in the Selected City of Government Offices of Cavite: A Comparative Analysis	2014-2016
SDG- 8 Decent Work and Economic Growth		



United Nations	Community Needs Assessment in the Selected Areas of Imus City, Cavite: A Participatory Action Research Project	2014-2016
SDG 11- Sustainable cities and Communities		

Table 2b. Student Theses completed for the last 5 years

Title of Thesis	Name Of Student	Thesis Adviser/ Technical Critic	CvSU RDE Thematic Area
<b>2023</b>			
Acceptability and Meat Quality of Chicken and Lapan Nuggets	Ma. Especita D. Luisaga	Irvin dL. Matel	Agri-Fisheries and Food Security
Comparative Organoleptic Properties of Lapan, Beef, Pork and Chicken Tapa	Jeric J. Madrono	Irvin dL. Matel	Agri-Fisheries and Food Security
Utilization of Spent Layer Hen’s Meat in the Production of Burger Patties	Jannie Rose Paraiso	Ma. Cecille N. Basa & Irvin dL. Matel	Agri-Fisheries and Food Security
Utilization of Culled Layer Breast and Intestine in the Production of Longganisa	Micaella Ysrael Panganiban	Ma. Cecille N. Basa	Agri-Fisheries and Food Security
A Comparative Evaluation of Broiler Chicken and Native Chicken Breast and Thigh Part in Tocino Production	Nina Yasmin D. Pahiculay	Ma. Cecille N. Basa & Cristina F. Olo	Agri-Fisheries and Food Security
Sensory Evaluation of Ground Pork Jerky at Different Drying Temperatures and Times	Sachelar Z. Bragado	Cristina F. Olo	Agri-Fisheries and Food Security



Organoleptic Evaluation and Process Optimization for Broiler Chicken ( <i>Gallus gallus domesticus</i> ) Patties Incorporated with Spent Quail ( <i>Coturnix coturnix</i> ) Meat	Maiane Danisse C. Radan	Cristina F. Olo	Agri-Fisheries and Food Security
Optimizing Drying Temperature, Time and Water Activity Of Local Beef Jerky	Eugenio D. Bracero	Cristina F. Olo & Ma. Cecille N. Basa	Agri-Fisheries and Food Security
Optimization of Drying Time and Temperature and Organoleptic Evaluation on Spent Ground Quail ( <i>Coturnix japonica</i> ) Jerky	Mark Davie V. Bejo	Cristina F. Olo	Agri-Fisheries and Food Security
Optimization of Dehydration, Consumer Acceptability, and Shelf Life of Rabbit ( <i>Oryctolagus Cuniculus</i> ) Meat Jerky	Chris John Bulagsac	Cristina F. Olo	Agri-Fisheries and Food Security
The Effects of Dietary Supplementation of Turmeric ( <i>Curruma Longa</i> ) Powder in Growth Performance and Organoleptic Properties of Commercial Broiler Chicken	Lay-Ann E. Palle	Ma. Cecille N. Basa	Agri-Fisheries and Food Security



Mallard Duck Meat ( <i>Anas platyrhynchos</i> ) and Broiler Chicken ( <i>Gallus gallus domesticus</i> ) Utilization in Burger Patties	Claire Anne M. Paragoso	Ma. Cecille N. Basa	Agri-Fisheries and Food Security
Optimization of Muscovy Duck ( <i>Cairina moschata</i> ) Meat Nuggets with 10% Inclusion of Chicken ( <i>Gallus gallus domesticus</i> ) Intestines	Jinlyn R. Perena	Ma. Cecille N. Basa	Agri-Fisheries and Food Security
Organoleptic Evaluation of Culler Layer ( <i>Gallus gallus domesticus</i> ) Culler Mallard Duck ( <i>Anas Platyrhychos</i> ) and Culler Muscovy Duck Meat ( <i>Cairina moschata</i> ) as Tocino	Via M. Malicdem	Irvin dL. Matel	Agri-Fisheries and Food Security
Optimization of Drying Temperature and Time on Sensory Quality of Chicken Jerky in Vacuum Sealed Packaging	Camille P. Aguirre	Cristina F. Olo	Agri-Fisheries and Food Security
Effects of Restricted Feeding Various Levels of Sweet Potato Vines ( <i>Ipomea batatas</i> ) on the Growth Performance of Non-Descript Goats ( <i>Capra hircus</i> )	Laine Rica A. Nuevo	Ma. Cecille N. Basa	Agri-Fisheries and Food Security





Organoleptic Analysis and Consumer Acceptability of Native Pork Skinless Longganisa Using Papaya ( <i>Carica papaya</i> ) and Coconut ( <i>Cocos nucifera</i> ) Vinegar as Tenderizers	Sarah Jane S. Laranjo	Ma. Cecille N. Basa	Agri-Fisheries and Food Security
Assessment of Management, Production, Post Harvest Practices and Milk Quality in Dairy Cattle Farms in Batangas	Jazzen Del Mundo	Cristina F. Olo	Agri-Fisheries and Food Security
Effects Of Alternative Feeding of Banana Pseudo-Stem ( <i>Musa Sapientum</i> ) on the Growth Performance of Anglo Nubian-Boer Goats ( <i>Capra hircus</i> )	Ryan Alexander C. Jaro	Cristina F. Olo	Agri-Fisheries and Food Security
Optimization of Drying Temperature and Time on Sensory Properties of Clievon Jerky	Eneralyn G. Andallo	Cristina F. Olo	Agri-Fisheries and Food Security
Effects of Using Pale, Soft, and Exudative Pork on the Quality of Tocino	Ian Christian A. Hinay	Irvin dL. Matel	Agri-Fisheries and Food Security
<b>2022</b>			



Growth and Yield of Green Kale ( <i>Brassica oleracea</i> var. sabellic) and Red Kale ( <i>Brassica Oleracea</i> var. pabularia) Planted In Varying Level Of Vermicompost	Cyrus Jhan Albacite & Ariel Villa Jr.	Adolfo C. Manuel, Jr & Jhon Vincent Caisip	Agri-Fisheries and Food Security
Characterization of Soil Physico-Chemical Properties and Crop Suitability Assessment in Crop Production Area of Cavite State University in Indang, Cavite	Michael John Dulay, Buensalido Lester, Madela Hadasa & Rosas Arlene	Venus O. Saz	Agri-Fisheries and Food Security
Adaptability and Acceptability of Introduced Okra Varieties in Tanza Cavite	Mark Veejay Jonas	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
Growth and Yield Performance of Bell Pepper ( <i>Capsicum annum</i> ) Applied with Fermented Micro Alge as Biostimulant	Leo Prieto Aritao And Alfredo Torres	Adolfo C. Manuel Jr.	Agri-Fisheries and Food Security
Evaluation of Farmers Knowldge, Perception and Practices on Eggplant Fruit and Shoot Borer Pest Management in Naic, Cavite	Clark Lincod Bueno & Wilmer Gabilis	Venus O. Saz & Lilibeth Novicio	Agri-Fisheries and Food Security; Societal Development and Equality



Growth and Yield Performance of Eggplant ( <i>Solanum melongena</i> ) Applied with Varying Level of IMO Grown Under Greenhouse Condition	Jesca Zion Domingo & Trisha Maralit	Venus O. Saz	Agri-Fisheries and Food Security
Performance of Flowering Pechay Grown in Different Hydroponic Solutions and Soil Based Media	Racel Crema & Allan Glang	Venus O. Saz & Adolfo C. Manuel Jr	Agri-Fisheries and Food Security
Agronomic Performance of Bell Pepper in Tagaytay Loam Soil Amended With Trichoderma	Jedidiah Roderno & Lorenz John Stangl	Jhon Vincent Caisip	Agri-Fisheries and Food Security
Agronomic Performance of Eggplant in Tagaytay Loam Soil Amended with Mykovam	Erwin Elgera & Kizirwin Salcedo	Jhon Vincent Caisip	Agri-Fisheries and Food Security
Growth and Yield Response of Sweet Corn Affected by <i>Trichoderma Spp.</i>	Mira Luz Umandap & Cjay Viano	Edgardo Gonzales & Jhon Vincent Caisip	Agri-Fisheries and Food Security
Growth and Yield Performance of Okra in Response to Saba Banana Peeling and Kakawate Leaves as Organic Fertilizer	Paula Rose Mamolo & Judylyne Toledo	Edgardo Gonzales & Jhon Vincent Caisip	Agri-Fisheries and Food Security
Growth and Yield of Tomato In Tagaytay Loam Soil Amended with Different Biofertilizers	Albento Jennarick & Santiago Harvey	Jhon Vincent Caisip And Jefferson Mojica	Agri-Fisheries and Food Security



Growth and Yield Performance of the Three Pepper Varieties ( <i>Capsicum Annuum</i> , <i>Capsicum Annuum Var Longum</i> And <i>Capsicum Frutescans</i> ) Applied with Varying Levels of Carrageenan	Aarol Acosta, Phia Paula Dejesa, Allen Iverson Lagunda, Jimuel Limbo & Vince Rafael Oclida	Venus Saz & Jhon Vincent Caisip	Agri-Fisheries and Food Security
Yield and Adaptability of Amaranth ( <i>Amaranthus Sp.</i> ) Varieties in Peri-Urban Condition	Drixx Kaizer A. Barquilla & Jemylyn Lopez	Adolfo C. Manuel, Jr & Venus O. Saz	Agri-Fisheries and Food Security
Different Concentration Of Wood Vinegar On The Fruit Quality And Shelf Life Of Lakatan Banana	Alyssa Mae Peren & Carla May Rosanes	Venus O. Saz	Agri-Fisheries and Food Security
Papaya ( <i>Carica papaya</i> ) Pickles Processing and Marketing	Albert S. Mojica	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
Awareness, Acceptance, Congruency and Dissemination of the University Vision And Mission, Cafenr Goals and Objectives of the BS Agriculture Program	Ezra P. Mangante, & Rael C. Soriano	Adolfo C. Manuel, Jr	Societal Development and Equality
Processing and Marketing of Cocoshanghai and Coconuggets	Jenny M. Reña & Kimbern Ordoña	Edgardo A. Gonzales	Agri-Fisheries and Food Security
<b>2021</b>			
<b><i>Closure of School and Laboratory due to COVID-19 Pandemic</i></b>			



<b>2020</b>			
Organic Rice Farming Practices and Compliance to the Philippine National Standards for Organic Agriculture in Occidental Mindoro	Diana Grace Z. De Mesa	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
Soil Characterization and Productivity of Organic and Inorganic Rice Farms in Magsaysay, Occidental Mindoro	Arleen S. Upod	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
<b>2019</b>			
Growth of Sweet Basil Fertilized with Different Levels of Black Soldier Fly ( <i>Hermetia Illucens</i> ) Larvae Frass	Nelo G. Pairat	Edgardo A. Gonzales	Agri-Fisheries and Food Security
Evaluation of Management Practices of Quail Raisers in Region IV-A	Marco Felix Valdez	Cristina F. Olo	Agri-Fisheries and Food Security
Ovarian Morphology and Follicular Fluid Levels at Different Number of Expressed Estrus in Non-Descript Native Gilts	John Lloyd J. Bayani	Cristina F. Olo	Agri-Fisheries and Food Security



Growth Performance of Philippine Native Chickens ( <i>Gallus gallus domesticus</i> L.) Fed Commercial Feeds with Varying Levels of Papaya ( <i>Carica Papaya</i> L.) Leaf Extract	Reizter R. Jimenez	Irvin dL. Matel	Agri-Fisheries and Food Security
In Vitro Evaluation Of Licitidal Efficacy Of Green Muscardine Fungus ( <i>Metarhizium Anisopliae</i> ) Against Biting Lice ( <i>Damalinia Caprae</i> ) Of Goats ( <i>Capra hircus</i> )	Gleamey D. Gabionza	Irvin dL. Matel	Agri-Fisheries and Food Security
Herbicidal Potential of Nami ( <i>Dioscorea hispida</i> ) Vinegar Against Selected Broadleaf Weeds Associated with Onion Production	Artemio T. Bañaga	Evelyn O. Singson	Agri-Fisheries and Food Security
Population Dynamics of Coffee Insect Pests and their Natural Enemies in Amadeo, Cavite	Harlene N. Erro	Evelyn O. Singson	Agri-Fisheries and Food Security
Farmers' Awareness and Management of Coffee Insect Pests and their Natural Enemies in Selected Areas of Upland Cavite	Brian Angelo R. Sustrina	Evelyn O. Singson	Agri-Fisheries and Food Security



Influence of Temperature and Relative Humidity on Coffee Pests and their Natural Enemies	Rachel S. Madrazo	Evelyn O. Singson	Agri-Fisheries and Food Security
<b>2018</b>			
Identification, Classification and Utilization of Lesser Known Nutraceutical Plants in Selected Towns of Quezon Province	Myla I. Ladines	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
Efficacy of Liquid Seaweed Extract as Biostimulant on the Performance of Chinese Kale ( <i>Brassicca oleracea</i> var. <i>alboglabra</i> )	Fredelino E. Vencina, Jr.	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
Enhancement of Seed Germination, Seedling Growth and Water Stress Tolerance of Cacao Landrace through Mycovam Inoculation	Christopher D. Briones	Adolfo C. Manuel, Jr	Agri-Fisheries and Food Security
Effects of Bio-Organic Fertilizer from Banana Peeling of Different Banana Varieties on the Growth Performance of Tomato ( <i>Solanum lycopersicum</i> ) Variety 'diamante'	Aaron Mark V. Oxeño, Lliani Kichi O. Mercado & Georgina Anne M. Viaña	Edgardo A. Gonzales	Agri-Fisheries and Food Security



Influence of Dietary Vitamin E and Selenium to the Laying Performance, Egg Quality And Carcass Characteristics of Japanese Quails ( <i>Coturnix coturnix japonica</i> ) under Heat Stress (34°C)	Karl Louise D. Obispo	Irvin dL. Matel & Cristina F. Olo	Agri-Fisheries and Food Security
Bioefficacy of Selected Botanicals Against Termites	Marielle G. Torres	Evelyn O. Singson	Agri-Fisheries and Food Security
Growth Response of Green Sprouting Calabrese Broccoli ( <i>Brassica oleracea italica group</i> ) to Different Concentrations of Biofertilizers	Ayen Mira E. Ferma, & Jewel Jade S. Malabanan	Abigail P. Daria	Agri-Fisheries and Food Security





Table 3a. Research Published in National Journals

<b>Year (Pub No.)</b>	<b>Title of Article/ Research</b>	<b>Authors</b>	<b>Name of National Refereed Journal of Publications</b>	<b>Vol No. / Issue No.</b>	<b>Page No.</b>
2021	Farmers' Awareness and Management Practices of Coffee Insect Pests in Selected Growing Areas in Cavite, Philippines	Brian Angelo R. Sustrina, <b>Evelyn O. Singson and Adolfo C. Manuel Jr.</b>	Philippine Coffee Journal	2	64-78
2010	Waste Recovery Assessment in Dumpsites of Cavite	<b>Lilibeth P. Novicio</b> , Noel A. Sedigo, S. P. Caramillo and J. B. Cabrera	CvSU Research Journal	Volume 24:1	61-63
2006	Production and Marketing Practices of Sugar Palm Workers in Selected Barangays of Indang, Cavite	<b>Lilibeth P. Novicio</b> , Celso S. Crucido and O. H. Hermoso	CvSU Research Journal	Volume 20:1 and 2	8-12
2005	Soil Characterization of Sugar Palm Growing Areas in Selected Barangays of Indang, Cavite	<b>Lilibeth P. Novicio</b> , Sedigo, N.A. and Alvarez. K.	CvSU Research Journal	Volume 19:1 and 2	36-40



2006	Companion planting of herbs and vegetables	A. Magsino, <b>Evelyn O. Singson</b> , A.C. Pascual, F.V Cuaterno, R.S. Bazar, L.M.D. Cruzada and M.R. Ronio	CvSU Research Journal	20(1-2)	1-7
2004	Insects pests of Ti plants, <i>Cordyline terminalis</i> Kunth and organic control of its most important pest	<b>Evelyn O. Singson</b> , M.T. Tabur	CvSU Research Journal	16,17,18	38-41
2004	Screening of mushroom samples for hemagglutinating activity	D.R.C. Alcala, <b>Evelyn O. Singson</b> , E.R.E Mojica, F.E. Merca, M.E. Jarne	CvSU Research Journal	16,17,18	32-35
2001	Insect Pests of Foliage Plants	Evelyn O. Singson	PCARRD Information Bulletin	205 (ISSN 0116-7736; ISBN 0977-2200-0431-3)	
2000	Arthropod pests of fish-tail fern, <i>Microsorium punctatum</i> (L) Copel "Gandiceps" (Polypodiceae)	<b>Evelyn O. Singson</b> , M.T. Tabur, M.N.P. Maranan	CvSU Research Journal	14(1&2)	23-27
2000	Insect pollination of coffee, <i>Coffea arabica</i> L.	<b>Evelyn O. Singson</b> , M.B Panganiban	CvSU Research Journal	14(1&2)	23-27



1999	Teknogabay sa Orkid (Technoguide in Vanda Orchid Culture)	R.M. Marquez, R.M. Nosa, <b>Evelyn O. Singson</b>	CvSU Research Center	ISBN 971-90032	2-9
1997	Learning Guide in Postharvest Handling and Storage of Perishable and Durable Crops	M.M., Escobar, A.C. Sanchez, <b>Evelyn O. Singson</b>	AGRITECH PROJECT		



Table 3b. Research published in International Journals in the last 5 years

Year (Pub No.)	Title of Article/ Research	Authors	Name of International Refereed Journal of Publications	Vol No. / Issue No.	Page No.
2022	Vetiver ( <i>Vetiveria zizanioides</i> ) as Phytoremediat or on Chromium and Nickel Grown in Lowland Rice Soils Affected by Mining Activities	Venus O. Saz	Journal of International Society for Southeast Asian Agricultural Sciences	Vol.28	149-193
	Perceptual Motivation and Involvement of Faculty towards Community Extension	Cereneo Santiago Jr., <b>Adolfo C. Manuel Jr.</b> , Ammie P. Ferrer, Jocelyn L. Reyes, Beverly A. Malabag, & Erwin L. Cahapin	Puissant – A Multidisciplinary Journal	Vol.4	1155-1170
2021	Characteristics and Nutrient Status of Limestone Soils in Leyte and Samar, Philippines	Venus O. Saz	Earth Sciences in the 21st Century. Geo-Information Technology in Earth Resources Monitoring and Management. Nova Science, New York.	Vol.7	211-227



2021	Mapping of Sources and Concentration of Plastic Wastes Generation in Imus River Watershed	Noel A. Sedigo, <b>Lilibeth P. Novicio</b> , P.L.D. Manolis and J. E. Laureta	PEMSEA Sea Knowledge Bank	NA	1-123
2021	Gender-Based Differentiation among Ornamental Crop Growers in Silang, Cavite	<b>Adolfo C. Manuel Jr.</b> a , Analita dM. Magsino a , Cereneo S. Santiago Jr. a* and Renzo Kyle V. Onella	International Journal of Plant & Soil Science	33 (24)	563-580
2019	Edible Wild Food Resources of the Hanunuo and Buhid Tribes in Bongabong, Oriental Mindoro	Rachelle M. Nazareno, <b>Evelyn O. Singson</b>	First Annual National PCSMT Research Congress Book of Abstracts	Vol.3	227-272



Table 3c. Student Research published in International/National Journals in the last 5 years

<b>Year (Pub No.)</b>	<b>Title of Article/ Research</b>	<b>Student Author</b>	<b>Name of International Refereed Journal of Publications</b>	<b>Vol No. / Issue No.</b>	<b>Page No.</b>
2021	Gender-Based Differentiation among Ornamental Crop Growers in Silang, Cavite	Adolfo C. Manuel Jr., Analita dM. Magsino, Cereneo S. Santiago Jr. and <b>Renzo Kyle V. Onella</b>	International Journal of Plant & Soil Science	33 (24)	563-580
2021	Farmers' Awareness and Management Practices of Coffee Insect Pests in Selected Growing Areas in Cavite, Philippines	<b>Brian Angelo R. Sustrina</b> , Evelyn O. Singson and Adolfo C. Manuel Jr.	Philippine Coffee Journal	2	64-78



Table 4a. Papers Presented in International Fora

Title	Researchers	Details
"The Pathway that Leads to the Discovery of the Beauty of Agri-Tourism: The Silan AgriFarm's SciCAT Journey"	Dr. Lilibeth O. Novicio	DOST-PCAARRD-FFTC joint hybrid seminar titled, "Harnessing the Economic and Socio-Cultural Opportunities of Rural and Farm Tourism", PDOST-PCAARRD Innovation and Technology Center (DPITC), Los Baños, Laguna, May 30, 2023 to June 1, 2023
Mapping of Pollution Sources under Component 2: Monitoring Methods and Capacity Building	Dr. Lilibeth O. Novicio	End Project Stakeholders' Forum for the ASEAN-Norwegian Cooperation Project on Local Capacity Building for Reducing Plastic Pollution in the ASEAN Region (ASEANO) , Polytechnic University of the Philippines, Manila via Zoom, August 19 -20, 2021
Establishment of DOST-PCAARRD Science for the Convergence of Agriculture and Tourism (SciCAT) - Project 2. Transforming Silan AgriFarm in Indang, Cavite into Science for the Convergence of Agriculture and Tourism (SciCAT)	Dr. Lilibeth O. Novicio	International Conference on Extension (IConEx) 2021, Polytechnic University of the Philippines, Manila via Zoom, August 19 -20, 2021
Application of Soil Amendments on the Chemical Fractions of Cromium and Nickel in Lowland Rice Soils as Affected by Minimg activites	Dr. Venus O. Saz	1st International Virtual Conference on Multidisciplinary Research and Innovation, Surigao del Sur State University, June 29-30, 2021



Microalgal biochar production via microwave torrefaction enhanced with the use of metal oxide as catalyst.	Mr. Arjay A. Arpia	Nature Conferences 2021, October 26-28, 2021, Seoul, South Korea/ Virtual
Catalytic effects of calcium oxide in microwave-assisted torrefaction of sugarcane bagasse optimized via Taguchi approach. (Best Session Paper)	Mr. Arjay A. Arpia	International Conference on Biohydrogen and Bioprocesses, December 18-21, 2020, Taichung, Taiwan
Optimization of catalytic microwave-assisted torrefaction of sugarcane bagasse via Taguchi approach: Fuel properties and energy analysis.	Mr. Arjay A. Arpia	International Conference on Applied Energy 2020, December 1-10, 2020, Bangkok, Thailand / Virtual
Effect of Zeolite and Organic Soil Amendments in Mitigating Chromium Uptake in Lowland Rice Soils Affected by Mining Activities	Dr. Venus O. Saz	19th International Zeolite Conference, Crown Perth, Australia, July 7-12, 2019
Effect of application of biochar in combination with mineral fertilizer on acidic sandy clay loam soil	Mr. Jhon Vincent Caisip	ISSAAS National Conference and General Meeting, Cavite State University, nov 19-21,2019





Table 4b. Papers Presented in National Fora in the last 5 years

Title	Researcher	Details
“SciCAT AVENUES: Access to Value Adding and Engaging iNnovations towards sUstainability of agri-Education and agri-touriSm”	Dr. Lilibeth P. Novicio	Extension Conference, Cavite State University, Indang, Cavite, September 7, 2022
Vetiver ( <i>Vetiveria zizanioides</i> ) as Phytoremediator on Chromium and Nickel Grown in Lowland Rice Soils Affected by Mining Activities	Dr. Venus O. Saz	2021 Virtual International Society for Southeast Asian Agricultural Sciences- National Scientific Congress, Via Zoom Virtual Meeting, December 16-17, 2021
Role of Zeolite and Organic Soil Amendments in Enhancing Soil Health in Lowland Rice Soils Affected by Nickel Laterite in Sta. Cruz, Zambales	Dr. Venus O. Saz	22nd Phil. Society of Soil Science and Technology (PSSST), Inc., Crown Legacy Hotel, Baguio City, May 6-9, 2019
Phytoremediation and Effect of Soil Amendments on Chromium and Nickel Uptake in Lowland Rice Soils Affected by Mining Activities	Dr. Venus O. Saz	2019 DPGAA Biennial Convention, CLSU, Science City of Muñoz, Nueva Ecija, October 22-23, 2019
Effect of Feeding Total Mixed Ration with Increasing Levels of Banana ( <i>Musa x paradisiaca</i> L.) Pseudostem on the Growth Performance, Nutrient Digestibility, Rumen Weight and Volume in Dairy Calves	Prof. Ma. Cecille Basa- Anuada	56th Philippine Society of Animal Science (PSAS) Scientific Seminar and Annual Convention, Royce Hotel Pampanga, October 14-16, 2019
Effect of Zeolite and Organic Soil Amendments in Reducing Chromium and Nickel Uptake in Lowland Rice Soils Affected by Mining Activities	Dr. Venus O. Saz	ASTHRDP Graduate Scholars Conference Year 8, Philippine International Convention Center, Pasay City, Metro Manila, May 2-3, 2019



Improved Metabolic Profiles, Body Condition Score and Body Weight as Positive Modulators of Conception Rate of Non-descript Goats Fed Concentrates	Dr. Cristina F. Olo	STAARRDEC Regional Symposium on Research, Development and Extension Highlights 9RSRDEH), Laguna State Polytechnic University, Siniloan, Laguna, October 11 – 12, 2018
“Transforming Silan’s Farm in Indang, Cavite into Science for the Convergence of Agriculture and Tourism (SciCAT): A SciCAT Project”	Dr. Lilibeth P. Novicio	Capacity and Capability Building Training , Bulacan State University, November 2018
“SciCAT AVENUES: Access to Value Adding and Engaging iNnovations towards sUStainability of agri-Education and agri-touriSm”	Dr. Lilibeth P. Novicio	Extension Conference , Cavite State University, Indang, Cavite, July, 09,2022
Relationships of Postpartum Blood Metabolites, Body Condition Score and Return to Estrus in Non-descript Native Goats Fed Concentrates	Dr. Cristina F. Olo	CvSU in house review 2022, Cavite State University, September 2022
Fundamental Principles on the Development of Ecotourism Sites” and “Transforming Traditional Farms into Agri-tourism Sites: The SciCAT Way	Dr. Lilibeth P. Novicio	EKS10SYON SERIES 8: Training on the Fundamental Principles on the Development of Ecotourism Sites, El Cielito Hotel, Baguio City, June 2, 2022
Transforming Silan’s Farm in Indang, Cavite into Science for the Convergence of Agriculture and Tourism (SciCAT)”	Dr. Lilibeth P. Novicio	34th Regional Symposium on Research, Development and Extension Highlights , Cavite State University, Indang, Cavite, October 20, 2021



Issues and Challenges Experienced by Extension Service-Provider Institutions	Dr. Lilibeth P. Novicio	Graduate Webinar, College of Public Affairs and Development University of the Philippines Los Baños, December 3, 2020
Cavite State University - Extension Services: Programs, Projects and Other Initiatives	Dr. Lilibeth P. Novicio	Immersion Program in Agriculture, Cavite State University, Indang, Cavite, January 28 to February 12, 2020
"Breed and breeding and reproduction" under the relationship and nutrition in non pubertal goats project	Dr. Cristina F. Olo	scicat project, silan farm, October 2019
Water Quality Assessment of Labac-Alemang River and Canas River in Cavite, Philippines Thru Macroinvertebrates and Physico-chemical Parameters	Dr. Evelyn O. Singson	2019 Research and Extension Week, Cavite State University, October 2019
" Laying performance of japanese quail ( Coturnix Coturnix Japonica) supplemented with Zinc, Vitamin C and E subjected to long term heat stress	Dr. Cristina F. Olo	2019 research and extension week, CvSU ICon Center, Indang, Cavite, September 2019
CvSU - Extension Services: Extension Programs and Projects;Trainings and Technical Services	Dr. Lilibeth P. Novicio	3rd Farmers' Forum 2019, Farmers' Hall, Magallanes, Cavite, May 23, 2019
Cavite State University's Poverty Alleviation Program thru the Ugnayan 2.0 Approach	Dr. Lilibeth P. Novicio	Seminar-Workshop 'RE- Unite: Research and Extension as One" Cavite State University - Carmona Campus, Carmona, Cavite, September 1, 2018



Solid Waste and Solid Waste Management	Dr. Lilibeth P. Novicio	Solid Waste Management Refresher and Composting Course, Brgy. Limbon, Indang, Cavite, April 19, 2018
Extension Program Proposal Writing	Dr. Lilibeth P. Novicio	Extension Program Proposal Writing Seminar, Cavite State University - Cavite City Campus, Cavite City, March 12, 2018



Table 5. Patented Research Outputs of Faculty and Students in the last 5 years

<b>Patented Researches</b>	<b>Author</b>	<b>Registration No.</b>	<b>Registration Date</b>
Inulin Product from Bacterial Isolate and Method of Production thereof	Hosea L. Matel, Nhyll Angelo S. Acuña, <b>Irvin DL. Matel</b>	12021050345	27 Jul 2021
Dioscorea esculenta syrup and uses thereof	Hosea L. Matel, Nhyll Angelo S. Acuña, <b>Irvin DL. Matel</b>	12022050164	8 Apr 2022

Table 6. Crop Varieties Developed by Cavite State University

<b>Owner/Originator</b>	<b>Crop Species</b>	<b>Variety Name</b>	<b>NSIC Registration No.</b>
Cavite State University	Liberica	CvSU Barako	NSIC 2007 Cf-L 01
Cavite State University	Robusta	CvSU Kapeng Manipis	NSIC 2007 Cf-R 07



Table 7. Copyrighted Research Outputs of Faculty and Students in the last 5 years

<b>Copyrighted Researches</b>	<b>Author</b>	<b>Registration No.</b>	<b>Registration Date</b>
Workbook in Approaches and Practices in Pest Management	Ivy Amor Almonia, Aurelio E. Ampo, Francisco O. Esgrina Jr., Raquel B. Evagelista, Marita S. Labe, Nordalyn B. Pedroche, <b>Evelyn O. Singson</b> , Angelina Taduran-Gonzales, and Evelyn P. Vedasto	ISBN-987-971-014-748-9	2023
SINAG-Turismo Webinar Series 2021: Asexual Propagation	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-38	March 28, 2023
SINAG-Turismo Webinar Series 2021: Nursery Management	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-40	March 28, 2023
SINAG-Turismo Webinar Series 2021: Native Chicken Production	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-36	March 28, 2023
SINAG-Turismo Webinar Series 2021: Vermicomposting	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-41	March 28, 2023



Sulit-Saya sa SciCAT Silan Phase 1 Poster	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	O2023-1363	March 28, 2023
SciCAT-Silan AgriFarm Phase 1 Promotional Video	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-43	March 28, 2023
SciCAT-Silan AgriFarm QUARANstory	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-39	March 28, 2023
SciCAT-Silan AgriFarm Dragon Fruit Farming	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-37	March 28, 2023
Sulit-Saya sa SciCAT Silan AgriFarm Promotional Video	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-42	March 28, 2023
SciCAT-Silan AgriFarm Phase 2 Promotional Video	Lilibeth P. Novicio, Yolanda A. Ilagan, Pia Rhoda P. Lucero, Lady Aileen A. Orsal, Bernadette S. Amparo, Roselle G. Esguerra, Sheena Mae L. de Leon	L2023-44	March 28, 2023



Agronomic Performance of Bell Pepper in Tagaytay Loam Soil Amended with Trichoderma	Jedidiah Roderno and Lorenz John Stangl	020231634	May 25, 2023
Growth and Yield Performance of Okra in Response to Saba Banana Peelings	Paula Rose C. Mamolo and Judylyne C. Toledo	020231620	May 25, 2023
Different Concentrations of Wood Vinegar on the Fruit Quality and Shelf Life of Lacatan Banana	Alyssa Mae P. Peren and Carla May M. Rosanes	020231632	May 25, 2023
Principles of Crop Protection Workbook	Lary V. Aceres, Arturo M. Alegado, Aurelio E. Ampo, Ivy Amor Almonia, Elaida R. Fiegalan, Angelina Taduran-Gonzale, Marita S. Labe, Judith T. Pit, Evelyn O. Singson, and Evelyn P. Vedasto	ISBN-621-8307-61-2	2022
Information Bulletin no. 3 CvSU ATBI Services (Brochure)	Almira G. Magcawas; Danikka A. Cubillo; Ruel M. Mojica; Guillermo P. Desinganio; Michelle M. Razo; and Marielle L. Romero	O2022-246	March 9, 2022
Information Bulletin no. 2 CvSU ATBI Application and Incubation Process (Brochure)	Almira G. Magcawas; Danikka A. Cubillo; Ruel M. Mojica; Guillermo P. Desinganio; Michelle M. Razo; and Marielle L. Romero	O2022-245	March 9, 2022





Gabay sa Pagtatanim ng Talong	Ruel M. Mojica; Lilibeth P. Novicio; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2022-244	March 9, 2022
Gabay sa Pagtatanim ng Saging	Ruel M. Mojica; Lilibeth P. Novicio; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2022-243	March 9, 2022
Gabay sa Pagtatanim ng Kamatis	Ruel M. Mojica; Lilibeth P. Novicio; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2022-242	March 9, 2022
Gabay sa Pagaalaga ng Lukot	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1174	December 1, 2021
Gabay sa Pagtatanim ng Pinya	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1167	December 1, 2021
Gabay sa Pagaalaga ng Kambing	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1168	December 1, 2021
Science for the Converge of Agriculture and Tourism	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1169	December 1, 2021



Gabay sa Pagtatanim ng Dragon Fruit	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1170	December 1, 2021
DOST-PCAARRD-CvSU Agri-Aqua Technology Business Incubation (Brochure) bulletin no. 1	Almira G. Magcawas; Danikka A. Cubillo; Ruel M. Mojica; <b>Guillermo P. Desinganio</b> ; Michelle M. Razo; and Marielle L. Romero	O2021-1160	December 1, 2021
Gabay sa Pagtatanim ng Papaya	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1165	December 1, 2021
Gabay sa Pagpoproseso ng Papaya	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-1166	December 1, 2021
Information Bulletin no. 3 CvSU ATBI Services (Brochure)	Almira G. Magcawas; Danikka A. Cubillo; Ruel M. Mojica; <b>Guillermo P. Desinganio</b> ; Michelle M. Razo; and Marielle L. Romero	O2022-246	March 9, 2022
Information Bulletin no. 2 CvSU ATBI Application and Incubation Process (Brochure)	Almira G. Magcawas; Danikka A. Cubillo; Ruel M. Mojica; <b>Guillermo P. Desinganio</b> ; Michelle M. Razo; and Marielle L. Romero	O2022-245	March 9, 2022
Gabay sa Pagtatanim ng Talong	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2022-244	March 9, 2022

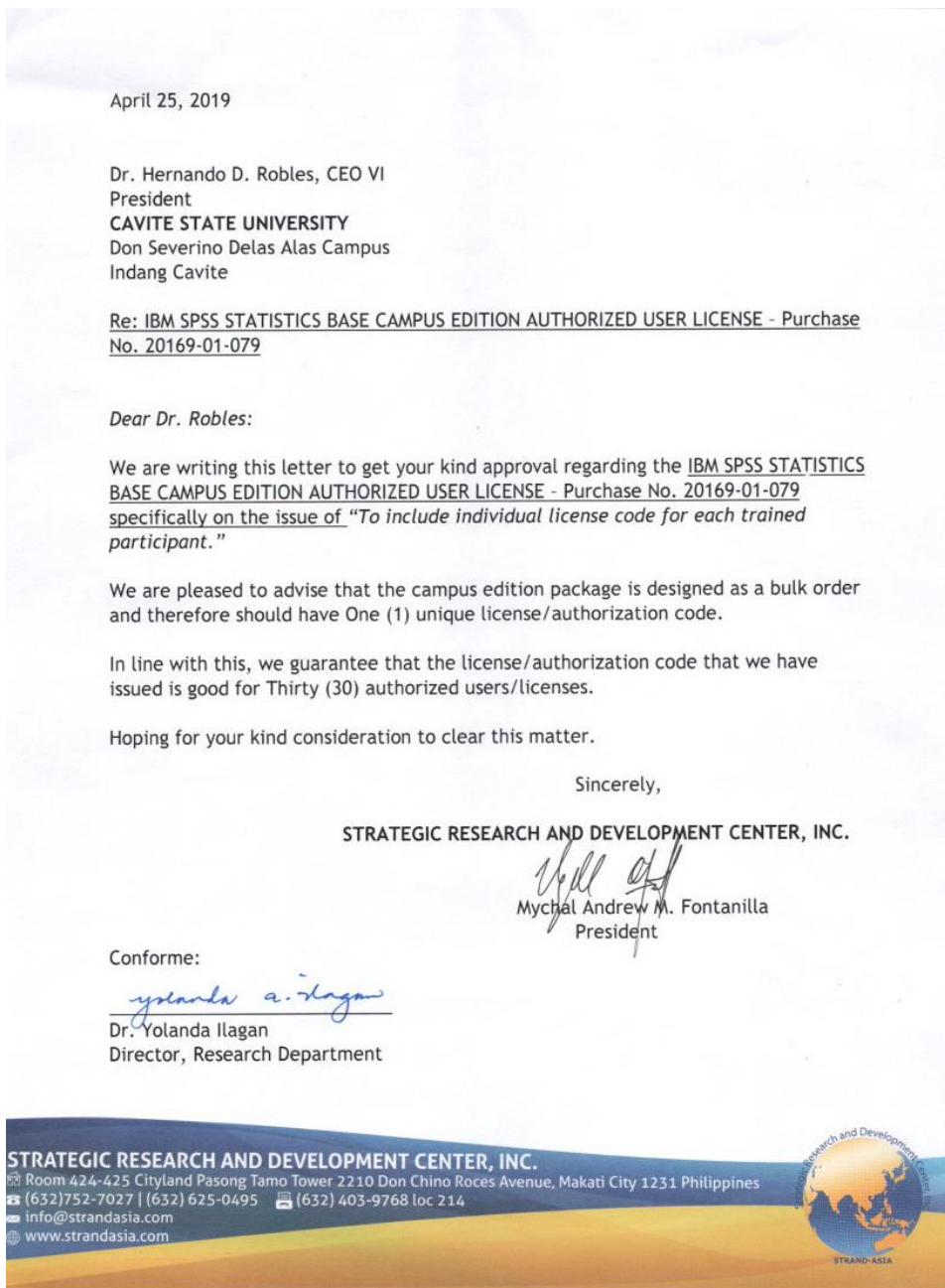


Gabay sa Pagtatanim ng Saging	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2022-243	March 9, 2022
Gabay sa Pagtatanim ng Kamatis	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2022-242	March 9, 2022
SciCat-Silan AgriFarm Stingless Beekeeping	<b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Pia Rhoda P. Lucero; Lady Aileen A. Orsal; Bernadette S. Amparo; Roselle G. Esguerra; Sheena Mae L. De Leon	L2022-447	September 21, 2022
SciCat-Silan AgriFarm Banana Production	<b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Pia Rhoda P. Lucero; Lady Aileen A. Orsal; Bernadette S. Amparo; Roselle G. Esguerra; Sheena Mae L. De Leon	L2022-446	September 21, 2022
Drip Irrigation Technology Guide	Ruel M. Mojica; <b>Lilibeth P. Novicio</b> ; Yolanda A. Ilagan; Lady Aileen A. Orsal; Edilberto R. Silan; Sheila Elaine D. Silan; Sheena Mae L. de Leon	O2021-539	September 14, 2021



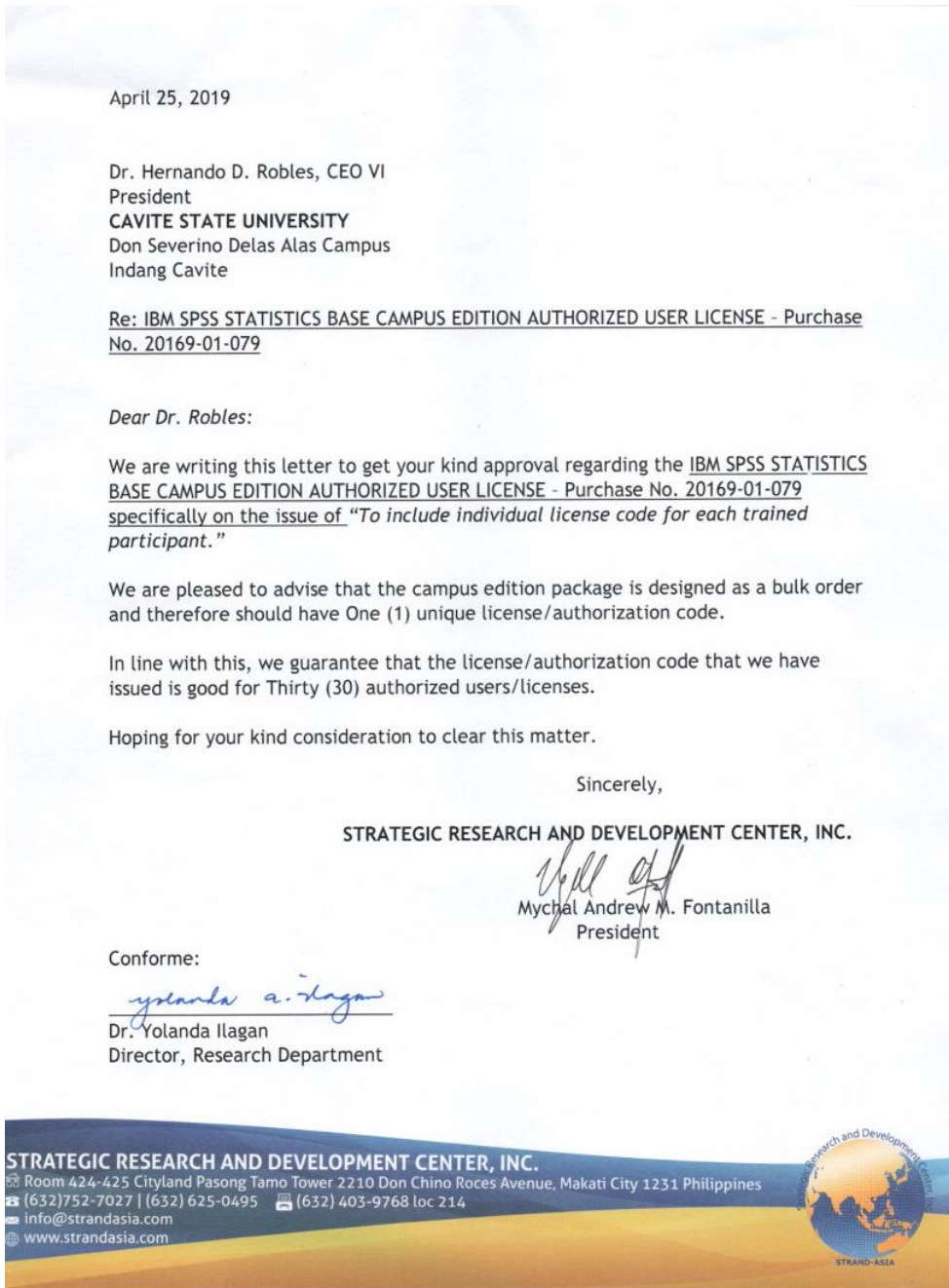
**Softwares used in Faculty and Student Research**

1. SPSS (Statistical Package for the Social Sciences)





2. TURNITIN





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IN WITNESS WHEREOF, the parties have hereunto set their hands and affix their customary signatures on this \_\_\_\_ day of March 2023 at Makati City.

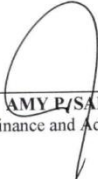
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**CAVITE STATE UNIVERSITY**  
 Indang Cavite

By:   
 \_\_\_\_\_  
**LEAH SEMBRANO BUNDALIAN**  
 General Manager

By:   
 \_\_\_\_\_  
**MIRIAM D. BALTAZAR PhD**  
 Director, Research Center

**SIGNED IN THE PRESENCE OF:**

  
 \_\_\_\_\_  
**AMY P. SABLALON**  
 Finance and Administrative Manager

  
 \_\_\_\_\_  
**AGNES C. FRANCISCO**  
 Director, KMC

  
 \_\_\_\_\_  
**MARLENE R. GRAFILO**  
 Research Center

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Table 8. Citations of Faculty and Student Research Outputs

<b>Year</b>	<b>Gilchor P. Cubillo</b>	<b>Lilibeth P. Novicio</b>	<b>Arjay Arpia</b>	<b>Cristina F. Olo</b>
2013		12		32
2014		11		49
2015		7		32
2016	1	3		31
2017		12		44
2018		15		29
2019		6		26
2020		7	2	23
2021	2	7	51	35
2022		3	138	12
2023		12	137	17
<b>TOTALS</b>	3	95	328	330



## Provision of Materials and Other Resources

With the aim of being a Research University in the future, Cavite State University has constructed a five-storey Inter-disciplinary Research Building which houses several laboratories managed by Faculty Researchers from various fields.



The laboratories boast of a 100 square-meter space per laboratory equipped for bio-chemistry, genetics/molecular, microbiological, simulation, social science research and others. The building also houses the university's Innovation & Technology Support Office (ITSO) at the ground floor.

**Computer Laboratories.** The university currently has 15 computer laboratories for faculty and student use. These computer laboratories maintain from 18 to 40 computer units per computer laboratory room.



**Net Houses and Greenhouses.** The College of Agriculture, Food, Environment and Natural Resources (CAFENR) maintains several net houses and greenhouses for

instruction, research and extension purposes. The Department of Crop Science maintains a Crop Production Area for vegetable and high value crops production.



Tools used for crop production are



housed at the tool room of the department. Two tractors are also available for land preparation and transport of harvested crops.

**Animal Production Areas.** The Department of Animal Science maintains one broiler house, one layer house (under renovation), one hog fattening house and 2 goat houses as experimental and production buildings.



The department also maintains a nutrition laboratory and a meat processing laboratory.



Table 9. Instructional Materials Produced by the Core Faculty Members

<b>Name of Faculty</b>	<b>Instructional Materials (workbook, manual, module, audio-visual aid)</b>	<b>Title</b>
Ma. Cecille N. Basa	Powerpoint Presentations	Introduction to animal Science, Animal Nutrition and Feeding, Research Techniques in Agriculture
Abigail P. Daria	Powerpoint Presentations	Principles of Crop Production, Practices in Crop Production, Postharvest and Seed Technology
Edgardo A. Gonzales	Powerpoint Presentations	Principles of Crop Production, Practices in Crop Production, Vegetables Production and Management, Postharvest and Seed Technology
Adolfo C. Manuel, Jr.	Powerpoint Presentation and Laboratory Manual	Plant Breeding, Propagation and Seed Technology, Advance Plant Breeding, Crop Seed Physiology and Advance Seed Technology,
Irvin DI. Matel	Powerpoint presentations, Laboratory Manual	Swine Production, Organic Agriculture, Animal Physiology
Lilibeth P. Novicio	PPT Presentation & Video	Seminar/Webinar, Planning a Seminar/webinar, Writing of Seminar/Webinar Proposal, Writing of Seminar/Webinar Proceedings, Seminar/Webinar Report Outline



Cristina F. Olo,	Manual-Workbook	Principles of Animal Breeding
Venus O. Saz	Power point Presentations , Laboratory Manual & Video	Seminar/Webinar Proceedings, Report Outline, Advanced Soil Fertility & Management; Advanced Plant Nutrient & Management
Evelyn O. Singson	Workbook	Principles of Crop Protection Workbook
	Laboratory manual	Laboratory Manual in Principles of Crop Protection
	Laboratory manual	Laboratory Manual in General Physiology and Toxicology
	Laboratory manual	Laboratory Manual in Beneficial Arthropods and Microorganisms
	Modules presented in PowerPoint Presentations	Modules in General Physiology and Toxicology
	Reviewer	CvSU Reviewer for Agriculturist Licensure Examination (Crop Protection)



Table 10. Participation of Significant Number of Faculty Members/Staff/Community in Major Project/Activities

<b>Seminar /Training</b>	<b>Inclusive Dates</b>	<b>Venue</b>	<b>Sponsoring Agency</b>	<b>Participants</b>
Online Scientific Writing Course 2023	April 5, April 12, April 19, 2023	Online webinar	NCRDEC	Nathalie Angel D. Benipayo
Training Course on Induced Genetic Variability in Plant	June 1-July 30, 2023	Quezon City	DOST-PNRI	Fredelino Espia Vecina Jr
Research Capacity Building Program for Makapuno/ Agriculture Researchers and Community Extension Workers	December 16,2021- May 13, 2022	Up Open University, Los Banos Laguna	Up Open University, Los Banos Laguna	Jhon Vincent C. Caisip
PUNLA: A Division Training-Workshop for Gulayan sa Paaralan Coordinators	September 18-19, 2022	Dasmarinas Central School Library	Dasmarinas li Central School Library	Jhon Vincent C. Caisip
Journal Writeshop on Data Mining and Theory Building	December 07-09, 2022	USTP	USTP	Patrick M. Montealto
CvSU-DICT Webinar Series on Online Productivity Tools and Free OperatingSystems	July 21, 23, 27, 29. 2021	Online Webinar	Cavite State University	Gilchor P. Cubillo



Future-Proof CEM: Harnessing Business and Economic Opportunities in theNewNormal	July 27, 2021.	Online Webinar	CEM UPLB, College, Laguna,	Gilchor P. Cubillo
DICT Cybersecurity Webinar,	June 30, 2021	Online Webinar	Cavite State University	Gilchor P. Cubillo
The Mixed-Method Approaches to Impact Assessment of Agriculture Reseach for Development Interventions	June 21, 2021.	Online Webinar	CEM, UPLB	Gilchor P. Cubillo
Productivity and Innovation Webinar Series, Development Academy of the Philippines,	April 14-16, 2021	Online Webinar	DILG and UNDP	Gilchor P. Cubillo
ISTORYA Webinar Series (1-4)	2021	Online Webinar	Extension Services and Colleges, Cavite StateUniversity	Gilchor P. Cubillo
Leadership Development Program for Higher Education Institutions in the Philippines- SE ARCA and CHED funded	April - 07 June 2021	Online Webinar	SEARCHA	Venus O. Saz





88th PVMA Annual Convention and Scientific Conference	February 17 – 19, 2021	Southern Mindanao	PVMA	Irvin De Leon Matel
OBE Curriculum Design	December 6-12, 2021	NMSCST	NMSCST	Patrick M. Montealto
Pagpapatuloy ng Pagsasaka sa Panahon ng Pandemya Para sa Kalusugan at Kita (4P's 2K's)	August 7, - 2021	Cavite State University- Main Campus	Cavite State University	Ma. Cecille B. Anuada
AGRITALK 2021: Featuring the Agriwomen in Cavite, Laguna, Batangas, Rizal, and Quezon (CALABARZON)	March 3, 2021	Agricultural Training Institute, Trece Martirez City, Cavite	DA-ATI	Ma. Cecille B. Anuada
Istorya: A Webinar Series Impact Services and Transformative Opportunities in Response to The Needs of the Community and the Academe	March 25, 2021	Cavite State University- Main Campus	Cavite State University	Ma. Cecille B. Anuada
Researchable Areas and Funding Opportunities for Cavite State University (CvSU) Researchers	February 25, 2021	Cavite State University- Main Campus	Cavite State University	Ma. Cecille B. Anuada
Broiler and Layer	February 10,	Online	University	Karl Louise D.



Production	2021	Webinar	Extension Center, Central Luzon State University	Obispo
Phylogenics as Alternative to In-feed Antibiotics in Swine	April 16, 2021	Online Webinar	Institute of Animal Science, UPLB	Karl Louisse D. Obispo
Feed Strategy Webinar Series	March 26, 2021	Online Webinar	CJ Bio Philippines	Karl Louisse D. Obispo
Barley As Feed Ingredient in Broiler Diets	May 28, 2021	Online Webinar	Institute of Animal Science, UPLB	Karl Louisse D. Obispo
PCAARRD Online Learning Management System Training on Preparation and Packaging of Proposal Addressing the Industry Strategic S&T Plans and Programs (ISP's) - DOST PCAARRD Funded	November 23-27 and December 01-04, 2021	Visayas State University	DOST PCAARRD	Venus O. Saz
Training on DevLive App for Region 3 and CALABARZON G-HUBS and Citizen Monitors, Philippine Rural Reconstruction Movement (PRRM),	January 21, 2021	Online Webinar	DILG and UNDP	Gilchor P. Cubillo



SAS Faculty Enablement Workshop	October 13-15, 2021	NMSCST	University of the Philippines Diliman	Patrick M. Montealto
Webinar Series (S1 and S2) - Agribusiness Innovations in the Time of COVID-19 and Philippine Cooperatives and COVID-19,	August 11-12, 2020	Online Webinar	CEM, University of the Philippines, Los Banos, Laguna	Gilchor P. Cubillo
Online Seminar Series (S1, S2, S3) on the Conduct of Researches in the NewNormal	July 18, July 21, July 28, 2020.	Online Webinar	Cavite State University Research Center	Gilchor P. Cubillo
Managing Working Capital in Times of Crisis	July 25 and July 31, 2020	Online Webinar	Union of Enterprising Cooperatives,	Gilchor P. Cubillo
Conceptual Operations Continuity Drive in Savings and Credit Management	July 3, 2020	Online Webinar	Union of Enterprising Cooperatives,	Gilchor P. Cubillo
Conditional Remedies: Aftermath of RA 11469 (The Bayanihan to Heal as One Act)	June 19-20, 2020.	Online Webinar	Union of enterprising Cooperatives,	Gilchor P. Cubillo
Personal Finance and Financial Literacy	May 26, 2020.	Online Webinar	Union of enterprising Cooperatives,	Gilchor P. Cubillo
Phosphorus in Poultry Nutrition	November 13, 2020	Online Webinar	Institute of Animal Science,	Karl Louise D. Obispo



			UPLB	
Advances in Sow Reproduction and Dairy Goat Breeding	October 30, 2020	Online Webinar	Institute of Animal Science, UPLB	Karl Louisse D. Obispo
PHILSAN Virtual Animal Nutrition Conference Series 2	October 15, 2020	Online Webinar	Institute of Animal Science, UPLB	Karl Louisse D. Obispo
PHILSAN Virtual Animal Nutrition Conference Series 1	October 8, 2020	Online Webinar	Institute of Animal Science, UPLB	Karl Louisse D. Obispo
Gilt Development and Selection for Improved Reproductive Success	August 20, 2020	Online Webinar	DSM Philippines	Karl Louisse D. Obispo
Data Analysis and Interpretation (CPAF)	August 1, 2020	University of the Philippines, Los Baños	University of the Philippines, Los Baños	Nathalie Angel D. Benipayo
Writing the Literature Review (CPAF Bootcamp)	July 29, 2020	University of the Philippines, Los Baños	University of the Philippines, Los Baños	Nathalie Angel D. Benipayo
Developing Research Problem and Objective Setting	July 28, 2020	University of the Philippines, Los Baños	University of the Philippines, Los Baños	Nathalie Angel D. Benipayo
Gabay sa Production ng Soybean	October 28, 2020	University of the Philippines, Los Baños	SARAI ESKWELA	Evelyn O. Singson



Enhancing Capability of Faculty Reviewers in the Licensure Examination in Agriculture “ Test Construction (Crop Protection) “	October 27, 2020	CAFS, UPLB	CAFS, UPLB	Evelyn O. Singson
The Effects of The Monochromatic Light Emitting Diode (LED) In Poultry Production	December 16, 2020	Cavite State University- Main Campus	Cavite State University	Ma. Cecille B. Anuada
Ruminant Nutrition	December 11, 2020	Dairy Training Research Institute - University of the Philippines, Los Baños	Dairy Training Research Institute	Ma. Cecille B. Anuada
Meat Negosyo Tayo Series: Ham Making	October 26, 2020	Institute of Animal Science - University of the Philippines, Los Baños	Institute of Animal Science - University of the Philippines, Los Baños	Ma. Cecille B. Anuada
Chikahan Sa Bafs: Organic Agriculture (Oa) Edition 2020	October 25, 2020	Bureau of Agriculture and Fisheries Standards- Department of Agriculture	Bureau of Agriculture and Fisheries Standards- Department of Agriculture	Ma. Cecille B. Anuada



One Stat-at-a-Time: A Webinar Series On Basic Statistical Tools And Techniques In Research Session 1 Entitled: Move On From You Ex- Periment:Basic Experimental Designs	November 23, 2020	University of the Philippines, Los Baños	University of the Philippines, Los Baños	Ma. Cecille B. Anuada
Goat Production and Management	October 23, 2020	Silan Agri- Farm and Cavite State University- Main Campus	Silan Agri-Farm and Cavite State University-Main Campus	Ma. Cecille B. Anuada
Smarter Pest Identification Technology (SPIDTECH)	August 5, 2020	CAFS, UPLB	SARAI ESKWELA	Evelyn O. Singson
One-Stop SARAI Date Access through the SARAI Knowledge Portal	July 29, 2020	CAFS, UPLB	SARAI ESKWELA	Evelyn O. Singson
Enhancing Capability of Faculty Reviewers in the Licensure Examination in Agriculture “ Innovative Teaching Methods and Tools Designed for Online Review Class (Crop Protection)	October 29, 2020	CAFS, UPLB	CAFS, UPLB	Evelyn O. Singson



Use of Weather Information and drone Aerial Images Crop Monitoring	September 16, 2020	CAFS, UPLB	SARAI ESKWELA	Evelyn O. Singson
Soil Properties and Management for Improved Crop Production	September 9, 2020	CAFS, UPLB	SARAI ESKWELA	Evelyn O. Singson
Virtual lab in Biology Through LabXchange	August 27, 2020	Online webinar	PCSMT Webinar Series	Evelyn O. Singson
Coffee Application Harvest Estimator (CAPHE) and Coffee Processing	August 26, 2020	CAFS, UPLB	SARAI ESKWELA	Evelyn O. Singson
Developing Modules for Learning A Training -Workshop	August 13-14, 2020	CvSU Imus	CvSU Imus	Evelyn O. Singson
6TH CALABARZON Research, Statistics and Innovation Forum	October 15, 2020	Online Webinar	Department of Science and Technology	Gilchor P. Cubillo
Research and Development Proposal Writing Online Training Program	December 1-4, 2020	Online Webinar	International Rice Research Institute, Los Banos, Laguna	Gilchor P. Cubillo
Webinar on	June 9, 2020.	Online	Department of	Gilchor P. Cubillo



Procurement During a State of Public Health Emergency for GPPBRecognized Trainers, Government Procurement Policy Board-Technical Support Office (GPPB-TSO)		Webinar	Budget and Management,	
Webinar Series on Course Design and Delivery for Flexible Learning Arrangement	June 22-26, 2021, June29, 2021, July 2-3, 2021 and July 6, 2021.	Online Webinar	Cavite State University, Indang, Cavite,	Gilchor P. Cubillo
Innovative Financing Series (S1 to S3)	July 20-22, 2021	Online Webinar	Department of Trade and Industry and thePhilippine Trade Training Center	Gilchor P. Cubillo
Policy Forum Series (S1-S7) on Decentralization, Constitutional Reform, andGovernance Innovations during COVID-19 Pandemic,	June 20, June27, July 11, August 3, August 15, August 29, September 5, 2020.	Online Webinar	Department of Interior andLocal Government (DILG) and KONRAD Adenauer Stiftung	Gilchor P. Cubillo
Imperatives of	May 2, 2020.	Online	Philippine	Gilchor P. Cubillo





Leadership, Governance, and Innovations at the Time of the NewNormal: A Knowledge Co-Creation and Capacity Development		Webinar	Society for Public Administration (PSPA) and the Department of Interior and Local Government (DILG)	
Cooperative Amidst Pandemic: Challenge for Resilience and Making a Difference	November 17-18, 2020	Online Webinar	Polytechnic University, Sta. Mesa, Manila	Gilchor P. Cubillo
Public Sector Productivity Webinar Series	November 23-25, 2020	Online Webinar	Development Academy of the Philippines (DAP)	Gilchor P. Cubillo
ISSAAS-Philippines National Congress and General Meeting 2019	November 19-21, 2019	ISSAAS-Philippines	ISSAAS-Philippines	Evelyn O. Singson
Orientation on Administrative and Support Services' Operations	July 4, 2019	CvSU	CvSU	Evelyn O. Singson
2019 SUC-ACAP, Inc. Annual Convention	May 22-24, 2019	Visayas State University/SUC-ACAP	Visayas State University/SUC-ACAP	Evelyn O. Singson
SUC-ACAP IEC Materials Development Writeshop for Crop Protection	April 24-26, 2019	Benguet State University/SUC-ACAP	Benguet State University	Evelyn O. Singson



Refresher on ISO 9001:2015	April 4, 2019	Cavite State University	CvSU	Evelyn O. Singson
Orientation Seminar on Agrostudies	March 28, 2019	Cavite State University	CvSU	Evelyn O. Singson
Workshop on Agrostudies Framework Formulation and Program Planning	March 6-8, 2019	Visayas State University	SUC-ACAP, Inc.	Evelyn O. Singson
DA-ATI School On Air: Hayop na Pangkabuhayan coordinator	August – November 2019	DA-ATI Trece Martires City	DA-ATI	Irvin De Leon Matel
22nd Dairy Congress and Expo	March 27 – 29, 2019	Development Academy of the Philippines, Tagaytay city	DA-Dairy ConEx	Irvin De Leon Matel
Planning of 2019th National Organic Agriculture Congress	July 10, 2019	Camp Benjamin, Amadeo Cavite	DA- Central, NOAP	Nathalie Angel D. Benipayo
NOAP Training and Field Seminars	May 3, 2019	Bicol Region	DA- Central, NOAP	Nathalie Angel D. Benipayo
NOAP Assessment and Fiscal Review	April 11, 2019	Calapan, Mindoro	DA- Central, NOAP	Nathalie Angel D. Benipayo
Training of Trainers on Local Road Asset Management, DILG and UNDP,	November 11-14, 2019.	Cebu City	DILG and UNDP	Gilchor P. Cubillo
Training-Workshop on Local Road Asset Management,	September 9-12, 2019	Davao City	DILG and UNDP	Gilchor P. Cubillo



Training on Strategizing for Change: SDGs and Sustainable Road Systems, PRRM and Greenpeace	October 25-26, 2019	Pansol, Calamba City, Laguna	DILG	Gilchor P. Cubillo
Training on Sustainable Development Goals Localization for CALABARZON HUBS	May 22-23, 2019	Biga, Silang, Cavite	Philippine Rural Reconstruction Movement,	Gilchor P. Cubillo
Training of Trainers Workshop on the Provincial Governance Reforms Roadmap (PGRR)	September 24-26, 2019	Tagaytay City,	UNDP	Gilchor P. Cubillo
Training of Trainers on SDG Localization for G-HUBS Batch 1	March 19-22, 2019.	Tagaytay City,	UNDP	Gilchor P. Cubillo
Training of Trainers, Union of Enterprising Cooperatives (UNECO) and	July 25-27, 2019	Days Hotel, Tagaytay City	UNDP	Gilchor P. Cubillo
Polytechnic University of the Philippines (PUP)				
Training workshop on Journal Article Writing	July 30 - August 1, 2019	UPLB	UPLB	Venus O. Saz



National Certificate II in Organic Agriculture Production	July 3, 2019	Indang Cavite	TESDA REGION IV-A	Fredelino Espia Vecina Jr
Trainers Training on RA 9184, Government Procurement Policy Board-Technical Support Office (GPPB-TSO)	2014 to 2019.		Department of Budget and Management (DBM)	Gilchor P. Cubillo
18Day Campaign to End VAW International Day Against Trafficking and Human Rights Consciousness Week	November 26, 2018	Cavite State University	DSWD, RIACAT-VAWC, RIACACP	Evelyn O. Singson
IEC Materials Development Writeshop	November 12-14, 2018	Benguet State University	SUC-ACAP	Evelyn O. Singson
CVSU Federated Faculty Association Seminar	August 31, 2018	Cavite State University	CvSU Federated Faculty Association	Evelyn O. Singson
6th National Congress and 2018 Philippine Agriculturists' Summit	July 23-26, 2018	Cebu City	Philippine Association of Agriculturists, Inc.	Evelyn O. Singson
2018 Research Colloquium:2nd In-House Review for Advanced Education	May 19, 2018	Cavite State University	Cavite State University,	Evelyn O. Singson



Textbook Writing and the Copyright Law	April 6, 2018	Manila	Mutya Publishing House, Inc.	Evelyn O. Singson
International Conference on Nutrition Sensitive Agriculture and Food Systems	November 7-10, 2018	Development Academy of the Philippines, Tagaytay city, Cavite	SEARCA	Irvin De Leon Matel
Laboratory Training Course on Analytical Methods	March 9, 2018	Cavite State University, Indang, Cavite	Cavite State University,	Irvin De Leon Matel
The International Farmers Summit School of Poultry	February 22, 2018	SMX Convention Center, Mall of Asia, Pasay city	EcoVet International Group	Irvin De Leon Matel
The International Farmers Summit School of Swine	February 21, 2018	SMX Convention Center, Mall of Asia, Pasay city	EcoVet International Group	Irvin De Leon Matel
85th PVMA Annual Convention and Scientific Conference	February 14-16, 2018	SMX Convention Center	PVMA	Irvin De Leon Matel
Confocal Microscope Seminar/Training, Cavite State University	December 3, 2018	Indang, Cavite	Cavite State University	Fredelino Espia Vecina Jr
International Coffee	October 1-4,	Development	Cavite State	Fredelino Espia



Education Congress,	2018	nt Academy of the Philippines, Tagaytay City,	University	Vecina Jr
Government Procurement Policy Board (GPPB) Confirmators Training	November 15-16, 2018	TwinTowers , Mandaluyong City	DILG and UNDP	Gilchor P. Cubillo
Training for Governance Coaches and Mentors, Organized by the United Nations Development Program (UNDP) and the Department of Interior and Local Government (DILG)	September 24-26, 2018	Kimberly Hotel, Amadeo, Cavite	DILG and UNDP	Gilchor P. Cubillo
Trainee at Sanctuario Nature Farms	June-July 2018	Indang, Cavite	Sanctuario Nature Farms	Fredelino Espia Vecina Jr
Trainee at Villar SIPAG Farm School and Allied Botanical Corporation	February 23-May 18, 2018	Bacoor, Cavite	Villar SIPAG Farm School and Allied Botanical Corporation	Fredelino Espia Vecina Jr



Table 11. Research Related Awards

<b>Name of Faculty</b>	<b>Area of Specialization</b>	<b>Title of Research</b>	<b>Awards</b>	<b>Awarding Agency</b>	<b>Venue</b>	<b>Category</b>
Edgardo A. Gonzales	Crop Science	Yield and Profitability of Selected Honeydew Cultivars Grown under Different Types of Trellis".	Best Paper	Regional Development Council-NEDA	CvSU, Indang, Cavite	Regional
Lilibeth P. Novicio	Forestry and Biomaterials Science	Research Project: ASEAN-Norwegian Cooperation Project on Local Capacity Building for Reducing Plastic Pollution in the ASEAN Region (ASEANO) (as co-author)	Best Completed Research Project Paper	Cavite State University	Cavite State University, Indang, Cavite	Local



		<p>SciCAT AVENUES: Access to Value Adding and Engaging iNnovations towards sUsTainability of agr-Education and agri-touriSm</p>	<p>Best On-going Extension Project Paper</p>	<p>Cavite State University</p>	<p>Cavite State University, Indang, Cavite</p>	<p>Local</p>
		<p>Transforming Silan Farm in Indang, Cavite into Science for the Convergence of Agriculture and Tourism (SciCAT)</p>	<p>Best Extension Paper - Second Place</p>	<p>Cavite State University</p>	<p>Cavite State University, Indang, Cavite</p>	<p>Regional</p>
		<p>Transforming Silan Farm in Indang, Cavite into Science for the Convergence of Agriculture and Tourism (SciCAT)</p>	<p>Certificate of Recognition for winning the Best Extension Poster Award</p>	<p>Cavite State University</p>	<p>Cavite State University, Indang, Cavite</p>	<p>Local</p>





		Transforming Silan Farm in Indang, Cavite into Science for the Convergence of Agriculture and Tourism (SciCAT)	Certificate of Recognition for winning the Best Extension Project	Cavite State University	Cavite State University, Indang, Cavite	Local
		SciCAT AVENUES: Access to Value Adding and Engaging iNnovations towards sUStainability of agr-Education and agri-tourism	Best Extension Project Video	Cavite State University	Cavite State University, Indang, Cavite	Local
		Adsorption capacities and related characteristics of wood charcoals carbonized using a one-step or two-step process	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local



		Adsorption of mercury by sugi wood carbonized at 1000C	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local
		Adsorption of mercury and other metals by carbonized wood powder from aqueous solutions of their salts	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local



		Removal of mercury from aqueous solutions of mercuric chloride using wood powder carbonized at high temperature	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local
		Carbonized Materias Adsorbents for the removal of mercury from aqueous solutions	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local



		Research and Development of Carbon Composites from Wood Charcoal for Environmental Clean-up and their Applications	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local
		Adsorption capacities and related characteristics of wood charcoals carbonized using a one-step or two-step process	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local



		Adsorption of mercury and other metals by carbonized wood powder from aqueous solutions of their salts	Certificate of Recognition for significant contribution in research through various citations in journal article	Cavite State University	Cavite State University, Indang, Cavite	Local
		Graduate School's Extension Program: <i>Kabuhayan, Karunungan, Kalikasan at Kalusugan sa Barangay</i>	Prime Mover/Outstanding Faculty Member	Cavite State University - College of Agriculture, Food, Environment and Natural Resources	Cavite State University, Indang, Cavite	Local
		Graduate School's Extension Program: <i>Kabuhayan, Karunungan, Kalikasan at Kalusugan sa Barangay</i>	3rd Place - Paper Presentation	Cavite State University	Cavite State University, Indang, Cavite	Local



		Exemplary performance in adhering to the mission and vision of the Cavite State University as manifested in international publications	Plaque of Recognition	Cavite State University	Cavite State University, Indang, Cavite	Local
Ma. Cecille N. Basa-Anuada	Animal Nutrition and Biochemistry	Effects of Different Types of Music on Growth, Behavior and Initial Egg Production of Quails ( <i>Coturnix coturnix</i> )	2nd Best Poster Award	CAFENR In-House 2015	Cavite State University, Indang, Cavite	Local
Venus O. Saz	Soil Chemistry and Plant Nutrition	For being acclaimed as Best Faculty Researcher at Cebu Technological University-Tuburan campus	Certificate of Recognition	Cebu Technological University	CTU-Tuburan, Cebu	Local



		Increasing Sweetpotato Production Through Nutrient Management for the Bio-Ethanol Plant in Tuburan, Cebu	Best Paper Award for Natural, Applied & Environmental Sciences Category	Cebu Technological University In-House Review	Cityscape Hotel, Subangdaku, Mandau e City	Local
		Properties and Nutrient Status of Soils Derived from Sedimentary Rocks in Leyte	3rd Best Paper Award	Philippine Society of Soil Science and Technology, Inc. (PSSST)-16th Annual Meeting and Scientific Conference	Subic Holiday Villas, Subic, Zambales	National



		Relationship Between Different Levels of Biozome-200 Incorporated with NPK Fertilizers on the Growth, Yield and Color Development of Purple Yam Tubers and LSU-Purple Sweetpotato in Acid, Calcareous and Neutral Soil	Certificate of Recognition as Qualifier	The Regional Research and Development/ Extension Network (RRDEN) and the Visayas Consortium for Agriculture and Resources Program (VICARP)	Visayas State University Convention Center, ViSCA, Baybay City, Leyte	Local
		Micronutrient Biofortification on Acid and Neutral Soils for Enhanced Crop Productivity and Improved Purple Coloration of Sweet Potato	2nd Best Paper Award	13th Philippine Society of Soil Science and Technology, Inc. (PSSST) Annual Meeting and Scientific Conference	Legend Hotel, Puerto Princesa City, Palawan	National





Eufemio Barcelon	Food Science	Finalist, LIKHA Award, Outstanding Creative Research		, DOST	DOST	
		2019 CvSU, Journal Article Publication Citation Awards				
		CvSU, Journal Article Citation Award in Food Science		UST Gawad Ambag Award, 2018	UST	
		UST Gawad Hasik Award		UST Gawad Ambag Award, 2018	UST	
		UST Gawad Pluma Award		UST		
		Philippine National Volunteer Award		PNVSCA-AVID		
		2014 DOST Balik Scientist Award				
		University of Ghent Distinction Award, Ph.D Program		Ph.D Program, Japan	Japan	



		Research Development Corporation Research Award				
		University of Ghent Distinction Award, MSC Program		MSC Japan	Japan	
Cristina F. Olo	Animal Breeding and Reproduction	Laying Performance of Japanese Quail (Cortunixcortunix Japonica) Supplemented with Zinc, Vitamin C and E Subjected to Long Term Heat Stress	Best Paper	International Conference on Agriculture and Biotechnology	Kuala Lumpur, Malaysia	International
Evelyn O. Singson	Entomology	Science Service Award	Science Service Award (10 years)	Philippine Consortium for Science, Math and Technology	Tarlac State University	National
		Service Award for 30 Years of Service	Service Award	Annual Recognition Program	Cavite State University	Local
		Evaluation of Different Cultural Management Practices as IPM Strategy against Pests of Dragonfruit	Best Paper Award	Annual Agency InHouse Review, Research Category	Cavite State University	Local



		Service Award for 25 Years of Service	Service Award	Annual Recognition Program	Cavite State University	Local
		Service Award for 20 years of Service	Service Award	Annual Recognition Program	Cavite State University	Local
		Centennial Award for accomplishments as faculty member with national contribution in technical publications in the field of Entomology	Centennial Award	CvSU Centennial Celebration	Cavite State University	Local
		Status of Beekeeping in Region IV	Best Poster Award	Fifth BEENET Annual National Conference and Technofora	Benguet State University	National
		Tanglaw ng Mag-aaral Award	Most Outstanding Faculty Member	Annual Recognition Program	Cavite State University	Local
		Systematic Studies on Encyrtid Parasitoids (Hymenoptera) of Homopterous Pests in the Philippines	Best PhD Dissertation Award	Gamma Sigma Delta Honor Society in Agriculture	UPLB, College, Laguna	National



		Systematic Studies on Encyrtid Parasitoids (Hymenoptera) of Homopterous Pests in the Philippines	LS Cuy Memorial Award in Systematics	Association of Systematic Biologists of the Philippines	UPLB, College , Laguna	National
		Foraging Ecology of Seed-Feeding Ants in Secondary Forest and Grassland Ecosystems in Mt. Makiling	Best MS Thesis Award	Gamma Sigma Delta Honor Society in Agriculture	UPLB, College , Laguna	National



## **Best Practices**

1. The university has developed the classification of “Faculty Researchers” who enjoy reduced teaching load provided they are conducting at least one research project;
2. Most faculty researchers have their own laboratories (100 sqm floor area) in the 5-storey Interdisciplinary Research Building where equipment were purchased either from the university’s GAA or from external funding agencies like PCAARRD, PCIERRD, DA-BAR and others;
3. The college provides some equipment for research provided they may be used for instructional purposes also;
4. Research funds of the university (10% of the university’s GAA) have been devolved to the different colleges. Evaluation and approval, however, remains under the responsibilities of the University Research Center;
5. Agenda setting involves all stakeholders, including but not limited to, farmers, students, parents, industry partners. local government units and agencies aside from university officials, faculty members and employees;
6. The university provides its counterpart for externally-funded research projects either in terms of funds, time devoted by faculty and employees, facilities and equipment and other services;
7. Facilities from the Interdisciplinary Building may be used by researchers needing them. Some laboratories are also designed as service laboratory for farmers and other stakeholders
8. The university provides local research funds through three modes: The CvSU Research Grant (CRG), CvSU Faculty and Students Research Capability Enhancement Fund (CvSU FSRCEP) and the Small-Scale CRG. CRG grants a budget of ₱200,000 per project, the FSRCEP provides ₱25,000 per undergraduate thesis and the Small-Scale CRG provides ₱10,000 per study.
9. Counterpart funds (required by some funding agencies) are shouldered by the university as the need arises.
10. Other equipment/repair needs may also be requested from the university and approved in a case-to-case basis.
11. There is a practice of “sharing of resources” in the whole university, including campuses, for expensive/high precision equipment available only in the Research Center.
12. Facilities available in the university may be used for research purposes such as field area and/or greenhouses for crop research, animal production buildings for livestock research and laboratory facilities for analysis.
13. An “Experts Pool” may also be tapped for inputs and other services like statistical analysis and modelling.



14. The University Research Center regularly conducts review of operations for updating and revision of its Operations Manual.
15. College Research Coordinators make collection of data on research activities of colleges and campuses easier.
16. Dissemination of university research activities was also easier because of College Research Coordinators.
17. The College Research Coordinators help faculty researchers develop their research proposals by reviewing before its endorsement to the University Research Center.
18. The university has mechanisms in place from research proposal to commercialization of research outputs.
19. Incentives are also in place from paper publications, paper presentations, publication citations and IP Incentive programs.
20. The administration of Cavite State University supports all the research undertakings of the university. The administration constructed a five-storey Interdisciplinary Research Building to house faculty researchers and their laboratories.
21. Since the pandemic, the university subscribed to Cisco Webex not only for instruction but also for research capability enhancement activities like training, webinars, meetings presentations and research and extension reviews.
22. Equipment needed are prioritized and purchased according to necessity.
23. ICT infrastructure is available to all faculty and staff allowing for widespread dissemination of communications and other research-related activities.
24. The administration provides research-conducive environment and setting by reducing the teaching loads of faculty researchers.
25. The administration also supports proposals submitted to external funding agencies by providing experimental sites, proposal writing seminars and trainings.
26. The administration provides Contract of Service (COS) staff for research projects.



## **Future Direction of BS Agriculture Program Research**

The Bachelor of Science in Agriculture is on the edge of a major transformation, as it adapts to meet the ever-evolving challenges of the agricultural industry. In a world facing climate change, resource constraints, and increasing demand for food, agriculture must continually innovate. The future directions of research in the Bachelor of Science in Agriculture focus on these key areas:

### **1. Marker-Assisted Selection and Breeding of Animals**

Marker-assisted selection (MAS) and breeding is revolutionizing the way animals are bred for desirable traits. By identifying and utilizing genetic markers associated with specific traits, such as disease resistance, meat quality, or milk production, animal breeders can accelerate the breeding process. This approach is crucial for increasing livestock efficiency and ensuring sustainable animal agriculture.

### **2. Genetic Conservation, Varietal Development and DNA Fingerprinting of Crops**

As biodiversity dwindles, the need for genetic conservation and varietal development becomes paramount. Students in agriculture programs are learning how to preserve and restore endangered plant species and develop new crop varieties that are more resilient, productive, and adapted to changing environmental conditions. Moreover, in a world where food security is a global concern, DNA fingerprinting of crops is a powerful tool for ensuring the authenticity of agricultural products. By utilizing DNA analysis, agricultural scientists can verify the identity and quality of fruits like tindok banana, guyabano, avocado, and jackfruit, reducing fraud and maintaining the integrity of the food supply chain.

### **3. Vertical/Urban Farming**

With the world's population becoming increasingly urbanized, agriculture needs to adapt to limited space. Vertical and urban farming are innovative solutions to this challenge. Agriculture programs are now exploring the techniques and technologies required for growing food in vertical structures and urban areas.

These research directions can help reduce resource consumption, preserve genetic diversity, minimize waste, and enhance the overall efficiency and resilience of agricultural systems, all of which are essential for a more sustainable future for agriculture and the planet.