

# Grains 2022

Central Luzon State University  
ANNUAL REPORT



## About the Cover

Going Beyond Borders, Embracing Borderless Education.

The year 2022 was truly a remarkable year for Central Luzon State University (CLSU). The strong performance of the University demonstrates the assiduousness and commitment of faculty and staff, the zealousness of the students, and the resilience of the institution in the face of the new and better normal to help the stakeholders accelerate and reach a sustainable transformation in the processes of academic, research and extension, business, and administration that transcends from local and national, to international.

With this, the cover emanates the different feats of the University towards its internationalization efforts as all these paved the path for

CLSU to create a mark in the global arena. Particularly, its inclusion in the world university rankings such as the QS Asia University Rankings, Times Higher Education Global Impact Rankings, Alper-Doger Scientific Index Rankings, and Webometrics Ranking Web of Universities, among others.

Moreover, the color palette used is green symbolizing growth and new beginnings as CLSU takes on the journey of going beyond borders (internationalization) and borderless education (digitalization). While different landmarks inside the campus were incorporated in the cover as graphics to depict the continuous efforts of the University in building state-of-the-art infrastructure that will complement the vision of becoming a world-class national research university.

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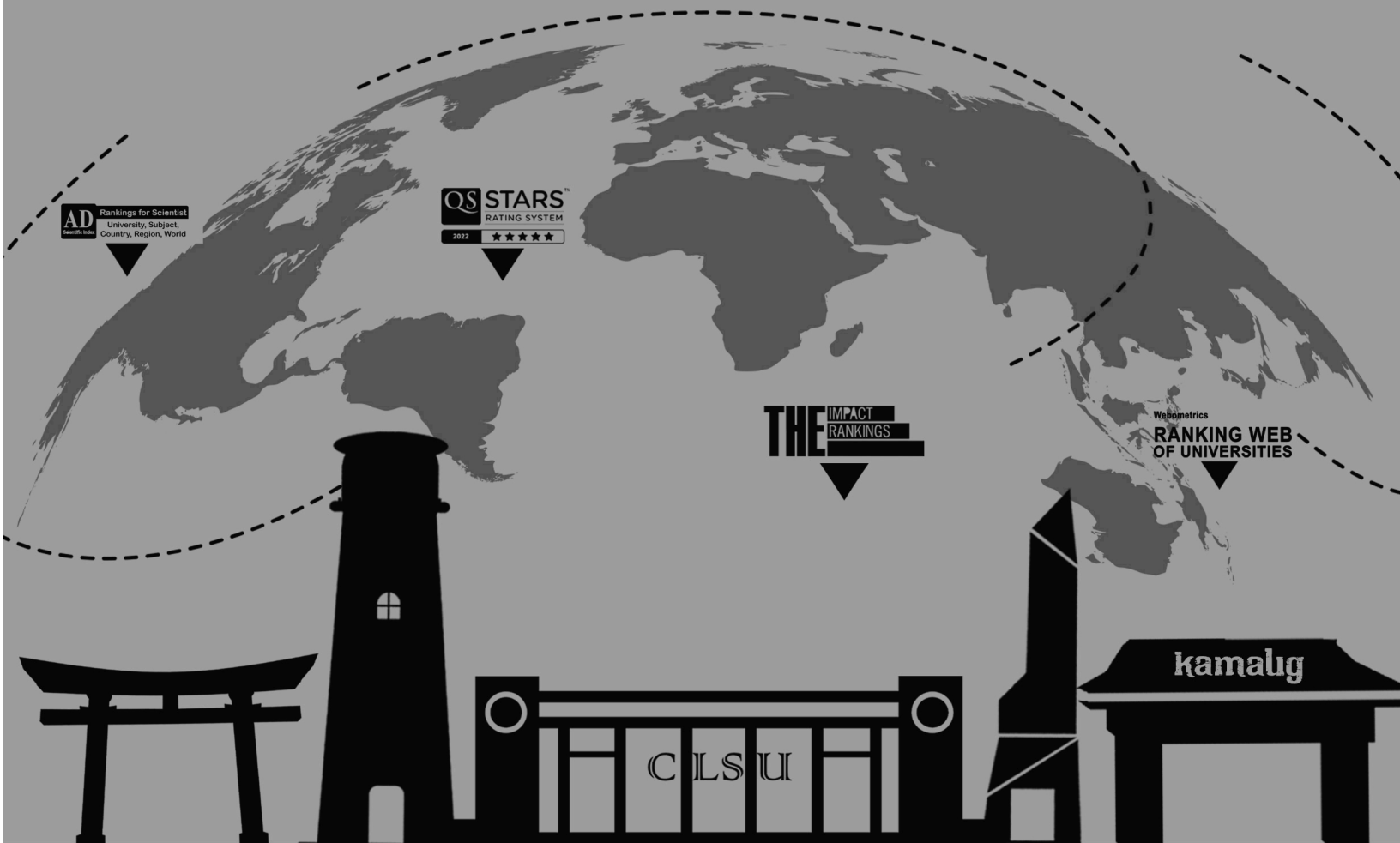
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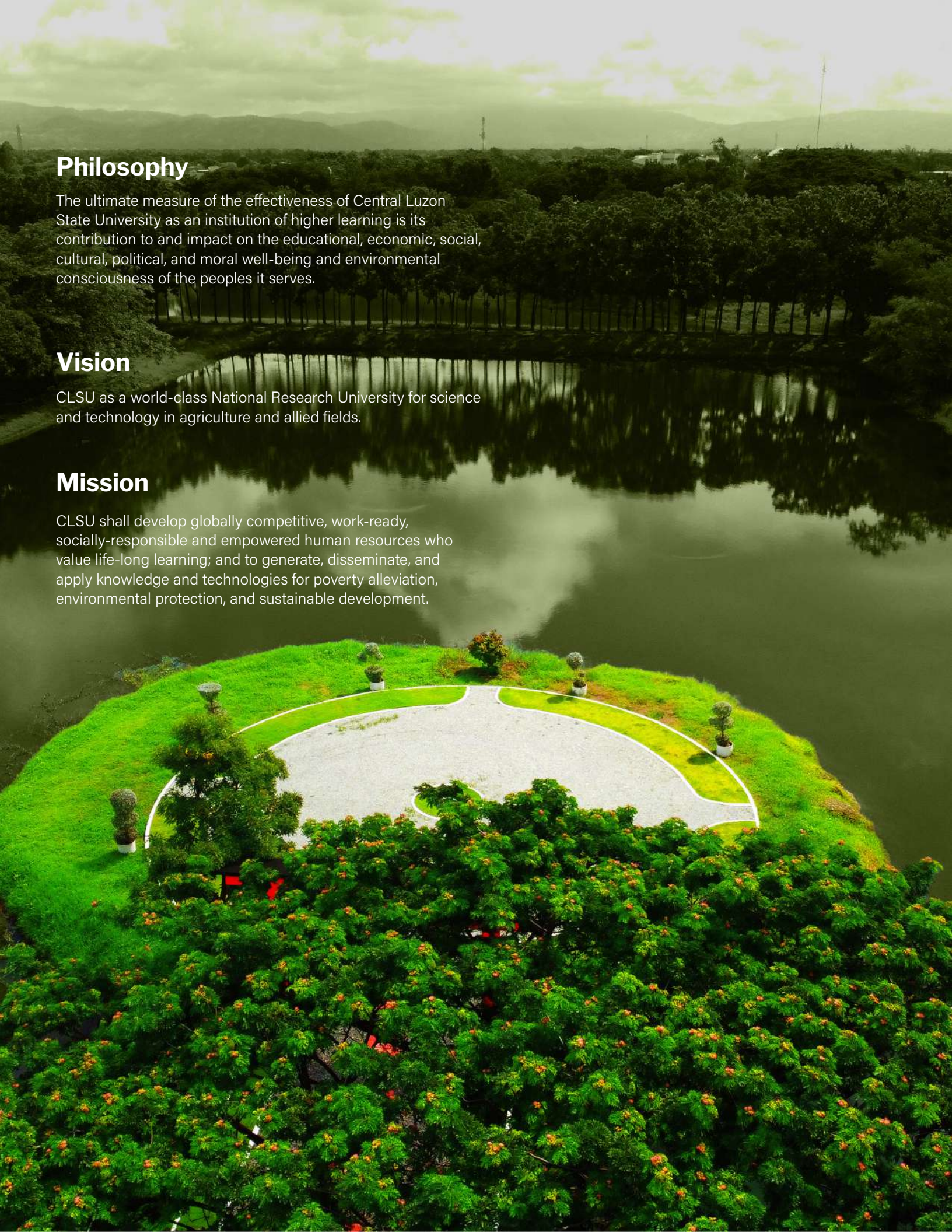
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# 2022 Grains

Central Luzon State University  
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## Philosophy

The ultimate measure of the effectiveness of Central Luzon State University as an institution of higher learning is its contribution to and impact on the educational, economic, social, cultural, political, and moral well-being and environmental consciousness of the peoples it serves.

## Vision

CLSU as a world-class National Research University for science and technology in agriculture and allied fields.

## Mission

CLSU shall develop globally competitive, work-ready, socially-responsible and empowered human resources who value life-long learning; and to generate, disseminate, and apply knowledge and technologies for poverty alleviation, environmental protection, and sustainable development.



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# Message

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This year's milestones and accomplishments reflect the cumulative effort of everyone from the time that we shifted our strategies to go global and take on the challenge of internationalization.

Allowing our mindset to open our borders and go beyond our limitations, we have forged new institutional partnerships here and abroad. Having mutual and beneficial exchange of expertise, facilities and other resources created more opportunities for our faculty, students, and staff to engage with their foreign counterparts and further amplify the impact of our efforts towards service excellence.

With all these efforts, CLSU now reaps the fruits of our labor as we debuted in the different international rankings and etched the name of our beloved institution alongside other prestigious universities in the world.

Recognized as a one of the comprehensive universities in the country, we went further by exerting efforts in achieving sustainability, and contributing to the attainment of the United Nations' Sustainable Development Goals. With this initiative, we were ranked among the top 601-800 universities in the world by the Times Higher Education (THE) ranking with outstanding efforts in climate action and life below water.

On the other hand, we continued to hurdle the challenges of being ranked by the Quacquarelli Symonds Asia University Ranking, landing as top 118th in South-Eastern Asia and among the top 701-750 universities in Asia.

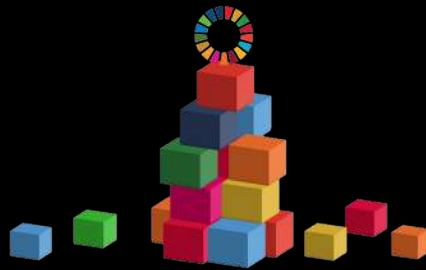
These recognitions proved that our efforts will never go unnoticed since we have been fulfilling the vision to become a world-class National Research University for science and technology in agriculture and allied fields.

Moving forward, let us thrive together and provide a top-notch higher learning institution for the peoples we serve.

Salute to all the members of the CLSU community!



**Edgar A. Orden**  
University President



**CLSU PASASALAMAT:  
HANDOG AY PAG-ASA  
CLSU PAILAW 2022**

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# CLSU

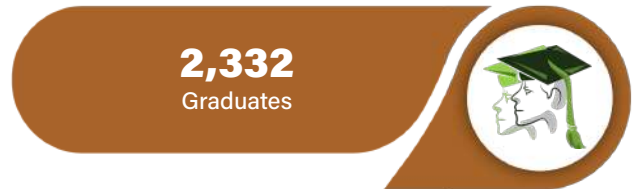
## at a Glance

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**14,438**

Students enrolled during  
1st Sem S.Y. 2022-2023



**2,332**

Graduates



**P10M**

Income Generated



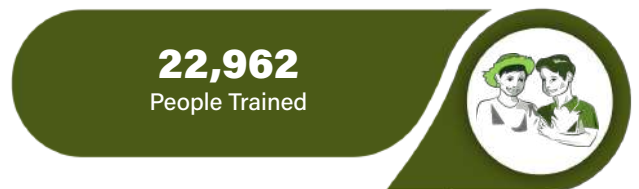
**P236M**

Funds Generated for R&D



**78**

Forged Linkages



**22,962**

People Trained



**10,966**

Recipients of Technical Advisory &  
Consultancy Services



**102**

Established Techno-Demo Sites



**209**

Completed and Ongoing  
Research Projects



**67**

Assisted IPR Applications



**69**

Developed  
Knowledge Products

**40,198**

Distributed  
KPs



**14**

Board Topnotchers



# Leadership in Agricultural Science & Technology







# CLSU in International University Rankings



## 2023 QS Asia University Rankings

The Central Luzon State University (CLSU), for the third time, made it to the list of best universities in Asia according to the 2023 Quacquarelli Symonds (QS) Asia University Rankings.

The University ranked as the 118th top university in South-Eastern Asia with 701-750 QS ranking. Only 16 Philippine universities made it to the list, with CLSU as the lone university from Central Luzon.



## 2022 THE Global Impact Rankings

CLSU debuted in the 601-800 bracket of the Times Higher Education (THE) Impact Rankings 2022 which measured the performance of 1,406 world universities on the attainment of United Nations' 17 Sustainable Development Goals (SDGs).



## WEBOMETRICS

CLSU ranked 18th out of 287 universities in the Philippines based on the Ranking Web of Universities considering several indicators such as visibility or the web content impact (50%), Transparency or Openness which include the top-cited research or number of citations (10%), and the excellence of top-cited papers for the last five years.



## AD Scientific Index

The Alper-Dodger (AD) 2022 Scientific Index hailed CLSU as 11th out of the Top 50 Universities in the country. On the other hand, a total of 27 faculty researchers in the university were listed as most cited scientist.

# CLSU Agri-Tourism: KAMALIG

## Keeping A Modern Agricultural Landscape through Integrating CLSU-Generated Technologies

The Filipino term “kamalig” which means storehouse, depicts the central idea of the establishment of a CLSU agritourism site – to store and showcase mature and smart technologies of the University ready for adoption and commercialization. It also aims to give the visitors and students experiential learning opportunities and agritourism encounters on Agri-fishery commodities.

The KAMALIG features eight stations, these are: *Kural* for the technologies generated by the Small Ruminant Center that include the three-way cross goat, forage production, milking, and use of biogas digester as the source of energy; *Pulut-pukyutan* for the stingless bees of College of Agriculture, *Saliksikan* for the technologies produced by the

University Research Center (URC) such as Kamlong, Special Purpose Rice varieties, soybeans and sunflower; *Lambat* for the technologies on Tilapia Production from Freshwater Aquaculture Center; *Salakot* for the technologies of Precision and Digital Agriculture Center and Center for Renewable Energy and Technology like the tower garden, drip irrigation, and use of solar powered pump, hydroponics and aquaponics; *Manggahan* for the seedlings of fruit bearing trees as an IGP of the university; *Agri-Tahanan* by the University Extension Center (UEC) which houses the itik-pinas and free range chicken; *Tumana* for the organic farming practices of RM-CARES, and; *Pinitak* for the hybrid rice varieties and farm machineries by Philippine-Sino Center for Agricultural Technology.





# Organic Farming Training Facilities

To further assist farmers and students in organic farming, a training facility that features an accommodation for up to 30 trainees with separate rooms for male and female was built through the initiative of RM-CARES.

The building is also equipped with a large pantry with several processing equipment which trainees can use to cook and process their own farm produce. This training facility caters not only the training needs of the students but other interested individuals and visitors of the University. Furthermore, it has a showroom for the different products developed by the Center.





# Plant Pests Disease Clinic, Surveillance and Research Center

The two-storey building is equipped with state-of-the-art facilities for the assessment and research on the biology of plant diseases and pests insect. The Center plays a vital role in the development of strategies to manage problems related to crop diseases that befall farmers in the region and the rest of the country. This 30 million project was funded under the General Appropriations Act (GAA).

# PhilSCAT Breeding Laboratories

PhilSCAT opened three new laboratories which focused on improving seed storage practices, pollen evaluation, and grain quality. The new facilities include a cold-water pond for the evaluation and seed multiplication of the Thermosensitive Genic Male Sterile (TGMS) for the development of TGMS-based or two-line hybrid rice.





# ASF Test Kits: Bringing Life to an Ailing Swine Industry

CLSU reached the finals of the Times Higher Education (THE) Awards Asia 2022 in one of the eight categories. It was shortlisted under the "Technological or Digital Innovation of the Year" category, making it the only Philippine Higher Education Institution to have claimed an exceptional spot on the said award.

The CLSU entry dubbed as "Nanogold ASF Test Kits: Bringing Life to an Ailing Swine Industry" highlighted the development of the nanogold biosensor rapid test kit for African Swine Fever (ASF) detection. The kit provides timely and low-cost screening tests for

the dreaded ASF in Central Luzon, Philippines which resulted in the recovery and performance of the country's swine industry. The government supported the project and allocated 1.5 million USD for mass production and distribution of test kits.

The nominees were Dr. Edgar A. Orden, University President and Dr. Clarissa Yvonne J. Domingo, faculty researcher from the College of Veterinary Science and Medicine, together with the Department of Agriculture and the Department of Science and Technology.



# RIDe Festival:

## Showcasing CLSU's R&D Results

The Research, Innovation and Development (RIDe) Festival exhibited the best CLSU technologies and products to provincial and local governments, partner institutions, and university stakeholders.

The exhibit, held at the FPJ Development Communication Hall, promoted different products and technologies by the different R&D centers of the University and partner agencies.

Several plenary sessions and presentations, through the University Research and Extension Centers and the Academic Research Council (ARC), were also conducted for the progress report of research and

development endeavors of CLSU faculty and staff.

An activity for pitching business proposals of CLSU-made products and technologies to investors was also done to attract potential funding and investment. The products included local food items, machineries, and organic fertilizers.

International expert, Dr. Richard Randle-Boggis, Research Associate from the University of Sheffield, United Kingdom, also delivered a professorial lecture on "agrivoltaics", a method involving harvesting solar energy and crop growth in a common land area.





# Excellence in Learning



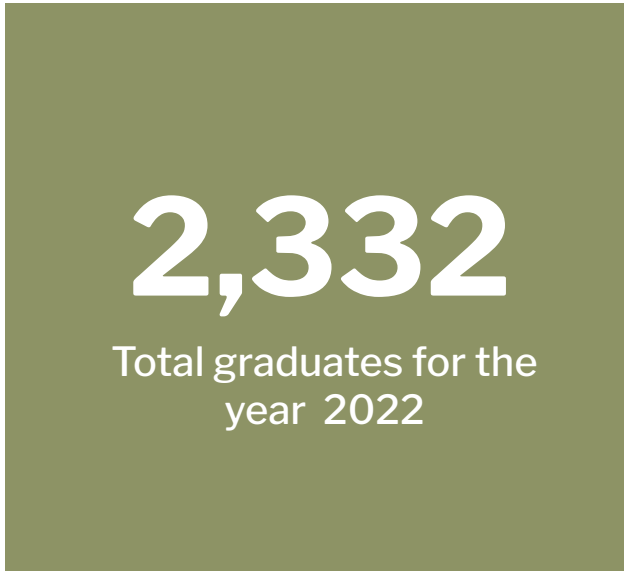




**1,816**  
70<sup>th</sup> Annual  
Commencement Exercises

**516**  
31<sup>st</sup> Mid-year  
Commencement Exercises





# 2,332

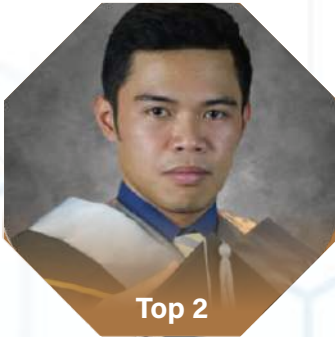
Total graduates for the  
year 2022



## Graduates

The Central Luzon State University successfully held its 31st Mid-year and 70th Annual Commencement Exercises conferring a total of 2,332 graduands from which 650 are with academic honors.





**Top 2**

**Dr. Jose Eldon DC. Sumeldan**  
*Veterinarian Licensure Examination*



**Top 10**

**Mr. Jason Aldrin C. Mesde**  
*Certified Public Accountant Licensure Examination*



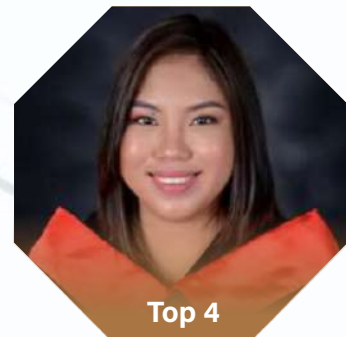
**Top 8**

**Dr. John Patrick G. Gicaraya**  
*Veterinarian Licensure Examination*



**Top 9**

**Dr. Vladimir S. Aguada**  
*Veterinarian Licensure Examination*



**Top 4**

**Engr. Melanie D. Piedad**  
*Agricultural and Biosystems Engineering Licensure Examination*



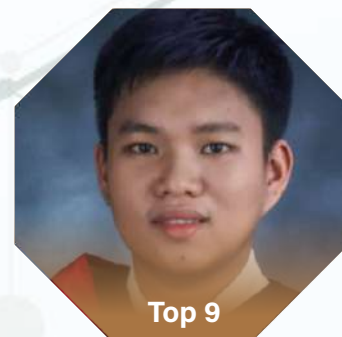
**Top 10**

**Mr. Francis Gerald N. Madrid**  
*Fisheries Professional Licensure Examination*



**Top 2**

**Mr. Gino R. Taboy**  
*Agriculturist Licensure Examination*



**Top 9**

**Engr. Jahashael L. Reyes**  
*Master Plumber Licensure Examination*



**Top 9**

**Mr. Jonathan M. Simon**  
*Agriculturist Licensure Examination*



**Engr. Benjover V. Nesperos**  
*Agricultural and Biosystems Engineering  
Licensure Examination*



**Ms. Belen D. Hernandez**  
*Board Licensure Examination for  
Professional Teachers*



**Engr. Nicole Jane J. Lim**  
*Agricultural and Biosystems Engineering  
Licensure Examination*



**Mr. Chito M. Catilago**  
*Fisheries Professional Licensure Examination*



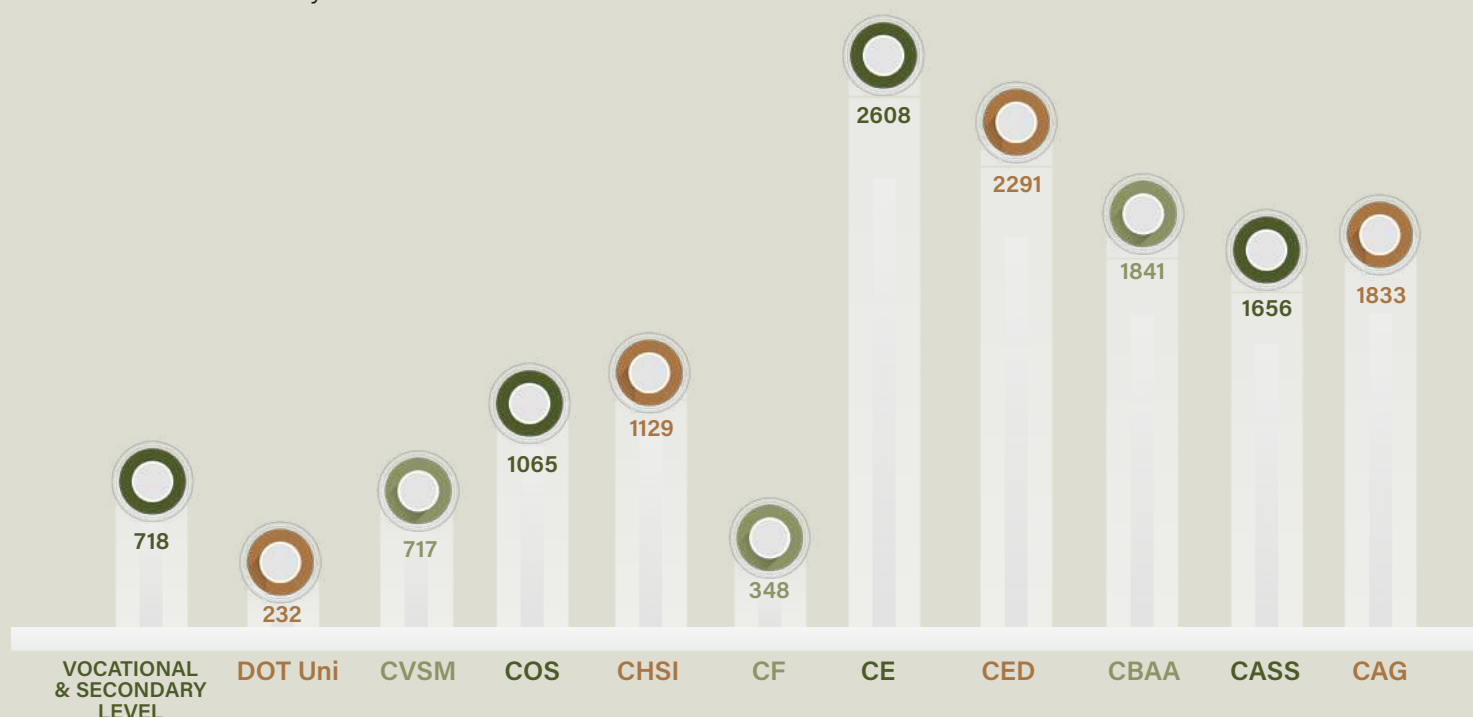
**Engr. Juan Miguel S. Ducosin**  
*Agricultural and Biosystems Engineering  
Licensure Examination*

# 2022 Board Topnotchers

The University produced a total of 14 topnotchers in different licensure examinations: Veterinarians (3); Master Plumber (1); Certified Public Accountant (1); Agricultural Biosystems Engineering (4); Fisheries Professionals (2); Agriculturists (2); and Professional Teacher (1).

# Enrolment

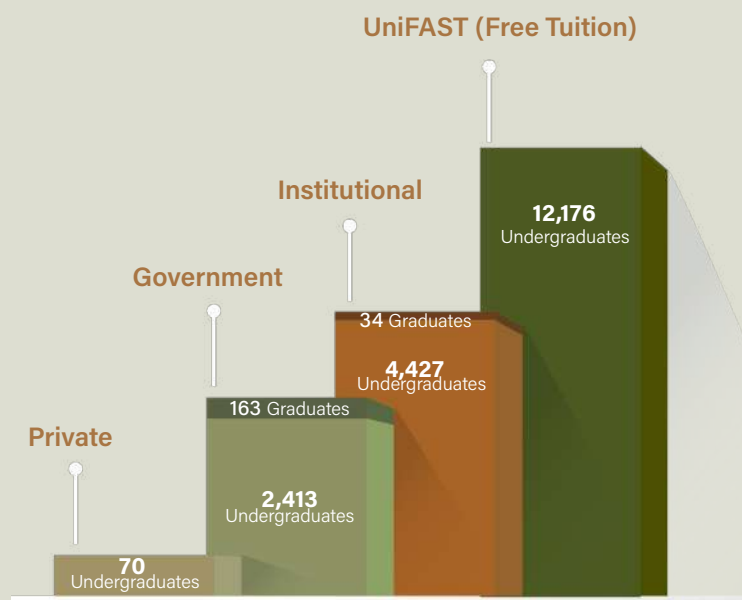
In terms of enrolment per college, encompassing the secondary and vocational levels, 14,438 students were enrolled for the first semester of the school year 2022-2023.



# Scholars

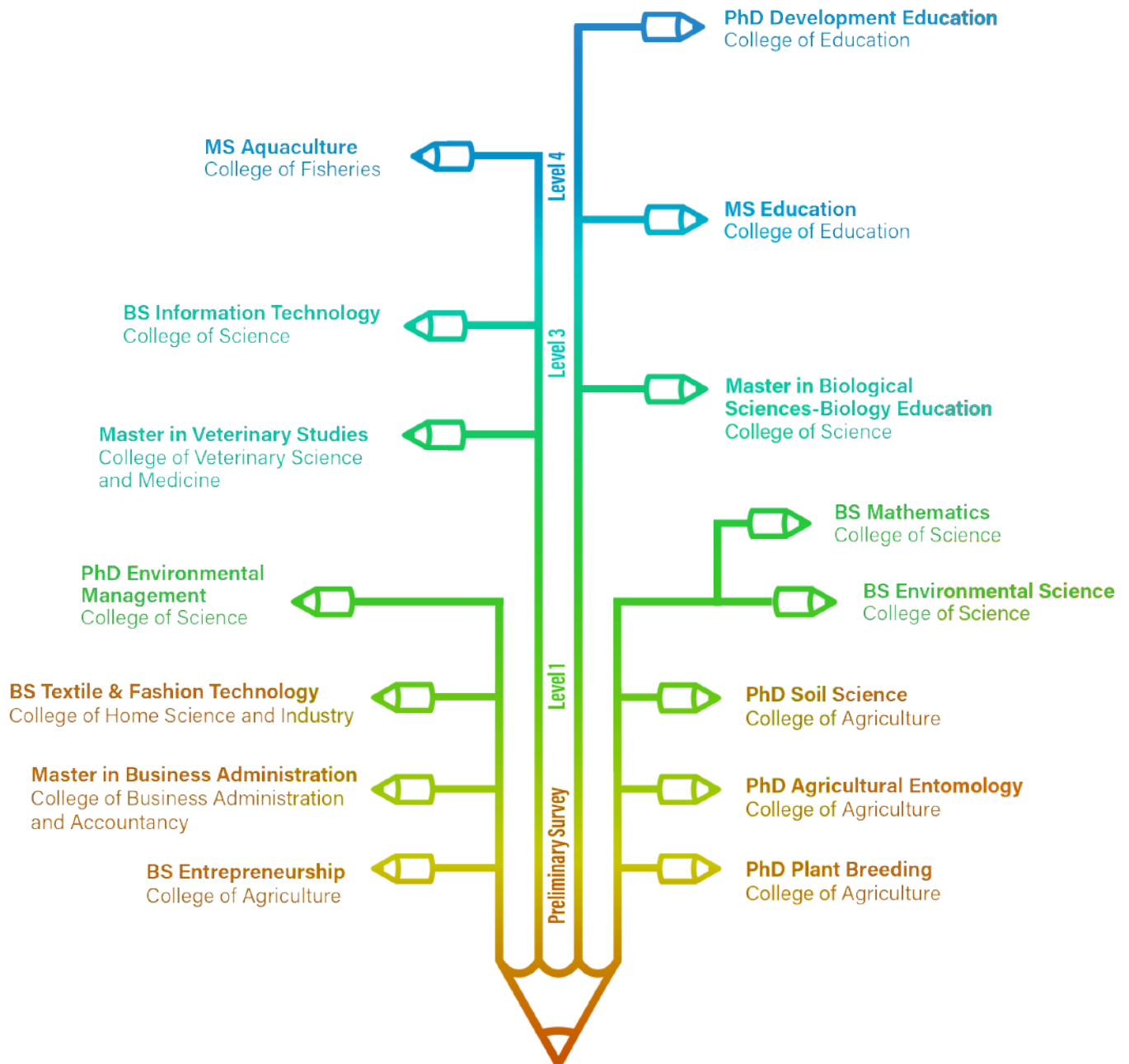
Scholarships assist students who are in need of financial support. The Central Luzon State University, being part of HEIs, is an eligible recipient of the Tertiary Education Subsidy (TES) and Unified Students Financial Assistance System for Tertiary Education (UniFAST).

In 2022, a notably high number of scholars was recorded as recipient of institutional scholarship with 4,427 students for undergraduate and 34 students for graduate programs.



# Accreditation

A total of 15 curricular programs underwent AACUP Accreditation in which 10 are graduate programs and 5 are undergraduate programs.



# Internationalization Efforts

## 4th UC Faculty Forum

As an affiliate member of the University Consortium (UC), Central Luzon State University (CLSU), for the first time, hosted the 4th Faculty Forum with the theme "Future Proofing Agriculture".

The 3-day event served as an avenue for UC faculty members to share ideas and practices through parallel sessions and paper presentations. More than 40 UC officials, faculty members, and guests attended the forum with participants coming from countries like Indonesia, Malaysia, Thailand, Taiwan, and Japan, among others.

Meanwhile, Prof. Dr. Robert C. Kemera Jr., a University of Georgia professor, served as plenary speaker. His talk revolved around recruiting the best and the brightest in agriculture. He presented some possible solutions to encourage the youth, especially

the cream of the crop and those who have brilliant minds, to enroll in agriculture. Some of the solutions he presented are one-on-one mentoring, rebranding agriculture, and offering scholarships to the students.

A total of 37 papers were presented during the said event, of which 9 were listed for session 1 which talked about the issue of enhancing food security by addressing food loss and waste; 9 for session 2 which discussed ways on enhancing the sustainability of agricultural activities in the face of urbanization and climate change; 10 for session 3 which focused on ensuring zero hunger through precision agriculture and the application of smart cutting-edge technologies; and 9 for session 4 which highlights strategies on encouraging young people to engage in agriculture.



## Seminar on Food Tech and Sensory Analysis

The College of Home Science and Industry (CHSI) conducted a series of seminars about sensory analysis and food technology with a resource speaker from Ghent University, Belgium.

A special lecture about sensory analysis was conducted by Dr. Ir. Joachim J. Schouteten, a Professor from Ghent University, Belgium where he provided new insights to the faculty researchers and students.

Dr. Schouteten presented his work on the "Development of a user-friendly method for combining emotional and sensory profiling by consumers" and "studying the potential effects of information and context on consumer food experience" where he introduced the concept of an EmoSensory Wheel, a process combining the self-assessment of sensory attributes and emotions by

consumers in a single wheel question format. Meanwhile, a lecture featuring the marketing of agro-food innovations was conducted with Prof. Dr. Hans De Steur, faculty at the Department of Agricultural Economics, Ghent University, Belgium.

Prof. De Steur's lecture focused on why and how agricultural marketing played a vital role in achieving Sustainable Development Goals (SDGs). He highlighted that research on such topics provides an important basis for the decision-making of policymakers and stakeholders in agriculture. The one-hour lecture also delved into his research on genetically modified (GM) crops (e.g., iodine biofortified food) and how it was received as goods by consumers in Uganda. The discussion painted a picture of how marketing is not only about promotion, or sales but about creating value for the customers.

## University of Georgia Professor Delivers a Lecture to CAg Faculty and Staff

Prof. Dr. Robert Kemerait Jr., a Plant Pathology professor from the University of Georgia, USA, visited the College of Agriculture (CAg) to deliver a lecture about the "Importance of Disease and Nematode Management in These Very Uncertain Times".

The lecture posed a big challenge to the college to produce possible solutions to the problems regarding plant pathogens that will help in achieving the sustainable development goals, particularly the zero hunger.





## First GAD International and National Research Congress

The Central Luzon State University through the University Gender and Development Office conducted the 1st International and 4th National Gender and Development Research Congress with the theme, "Gender-Transformative Research and Development for Sustainability and Inclusivity."

Dr. Khin Mar Cho, an International Professor of Sustainable Agriculture and Global Food Systems International Agriculture/Food Systems and Nutrition Specialist, Department of Global Development, Cornell University, New York, USA, served as the keynote speaker.

During her speech, she discussed the Gender Transformative Approaches for Inclusive and Sustainable Food Systems wherein she mentioned

some global challenges like women are 15% more likely than men to be moderately or severely food insecure. She also highlighted that women are key to agricultural transformation around the world, but various obstacles and economic constraints limit their contributions to their households and communities.

Thereafter, Senator Risa Hontiveros, chair of the senate committee on women, children, family relations, and gender equality, inspired the participants during her message as the national keynote speaker. She emphasized the recently passed law entitled, "Anti-Online Sexual Abuse or Exploitation of Children Law," which imposes duties on social media platforms, financial intermediaries, and even internet service providers among others.

# CLSU Involvement in International Mobility

## Student-leaders Attend Int'l Program in Thailand

Five student-leaders joined the Philippine delegation to the 7th Global Leadership Program held in Phuket Thailand from August 12 - 19, 2022.

Mr. Sherren Punzalan, Chairperson of CLSU University Supreme Student Council; Mr. Laurence Ramos, Editor-in-Chief of CLSU Collegian; Ms. Mitzi Trixie Fernandez, Student Council President of Department of Communication Development Studies; Mr. John Nikko Espiritu, Secretary of Development Communication Student Council; and Mr. Joel Collado, Secretary of Psychological Society attended the program together with Dr. Irene Bustos, Acting Dean of the Office of Student Affairs.

The 7th Global Leadership Program is an international event organized by the Association of Universities of Asia and the Pacific (AUAP) in cooperation with Phuket Rajabhat University (PKRU). It features a variety of activities conducted outside the classroom to engage student leaders in taking on different projects that will provide them opportunities that will develop their leadership skills.

Meanwhile, another batch of student-leaders arrived in Bangkok, Thailand on the 1st AUAP Youth Development Programme. They were Mr. Ned Ivan Cruz (USSC), Mr. Manuel Paolo De Leon, Jr. (CS), Ms. Ginelle Angela Cabico (CVSM), and Ms. Patricia Lacson (CEd) together with Asst. Prof. Mark Allan Mananggit of the Office of Student Affairs (OSA). The event was hosted by the Master's Institute Development Academic and Seminary (MIDAS).

## DevCom Student Joins SEAMEO RIHED 2022 Inter-Regional Research Symposium in Bangkok, Thailand

Mr. Laurence Ramos, an undergraduate student taking Development Communication presented his paper entitled "Rise of Webinar: An Impact Assessment of Online Seminar Learning from the Students' Perspective" in the 2022 Inter-Regional Research Symposium at Asia Hotel Bangkok, Thailand.

Southeast Asian Ministers of Education Organization - Regional Center for Higher Education Development (SEAMEO - RIHED) organized the symposium focusing on Sustainable Learning in Higher Education: Towards Sustainable Development.

Asst. Prof. Alexis Ramirez, Guidance Services Unit In-Charge of the Office of Student Affairs, was also present in the said program.



# Foreign Students

## Foreign Language and Area Studies

Four foreign students from the University of Michigan and Northern Illinois University completed their Foreign Language and Area Studies (FLAS) summer program. Their activity includes an intensive language and culture immersion through taking Filipino classes, learning and acquiring Filipino culture and tradition, living with a Filipino family, and exploring the heritage places in the Philippines.



## CVSM, CenTrAD Host Visiting PhD Student from Michigan State University

The College of Veterinary Science and Medicine (CVSM) and the newly established Center for Transboundary Animal Diseases (CenTrAD) served as hosts to the visiting PhD student from one of CLSU's partner universities in the US, the Michigan State University (MSU).

Chelsie A. Boodoo, a doctoral candidate in Biosystems and Agricultural Engineering at MSU spent time at the CVSM Molecular Biology laboratory to conduct validation tests for her dissertation project on December 4 -12, 2022.

Boodoo's dissertation focused on the validation of nanotech-based biosensors for the detection of African Swine Fever Virus (ASFV). She used two nanoparticles: Magnetic nanoparticles (MNPs) and gold nanoparticles (GNPs) which were synthesized at her home university's laboratory.



## Graduate Student from Bugema University, Uganda Joins CTMRD Research Team

MS Biology student Emily Asasira, volunteered as a research staff at the Center for Tropical Mushroom Research and Development (CTMRD) to work on commercially cultivated mushrooms. She intends to be fully immersed in research since she will be working on mushrooms for her master's thesis.

# Faculty Venture on International Arena



## CLSU Affirms Commitment with Indonesian Universities to Boost IZN, Promotes eFARM Academy Program

Faculty members from CLSU paid a courtesy visit to the Institut Pertanian Bogor (IPB) University and the Pakuan University (UNPAK) in Bogor, Indonesia to affirm its commitment to strengthening international relationships and promoting the engaging Food and Agriculture Resources Management (eFARM) Academy Program of the University.

The delegation was composed of the eFARM Academy Program team led by Dr. Gella Patria L. Abella, program leader, Dr. Celyrah B. Castillo and

Asst. Prof. Maria Adrielle S. Estigoy, project leaders, and Dr. Mercedita M. Reyes, project staff. In addition, Dr. Emil F. Ubaldo of the International Affairs Office-International Mobility Unit joined the visit.

The highlights of the visit include the introduction of the eFARM Academy Program, discussions on possible areas of collaboration with researchers from IPB University and UnPak and opportunities for student exchanges, and benchmarking of the agroedutourism sites on IPB campuses.



## 5 Faculties Complete SEARCA Short-term Courses in Indonesia and Malaysia

Five faculty members participated in two short-term courses co-sponsored by the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) and its partner universities.

Four of them completed the International Summer Course Program on Agriculture and Ecosystem Resilience to Environmental Disaster Toward Regional Sustainability which was hosted by the IPB University in Bogor, Indonesia.

The participation of the four faculty members namely: Engr. Eliza E. Camaso (College of Engineering), Engr. Lea S. Caguiat (Institute for Climate Change and Environmental Management), Mr. Daryl A. Juganas (Institute for Climate Change and Environmental Management), and Mr. Jarius Jesse M. Tubal (College of Agriculture) were made possible through the Leveling-Up Philippine Higher Education Institutions

in Agriculture, Fisheries, and Natural Resources (LevelUPHEI AFAR) Project under the International Continuing Professional Education (ICPE) Grants of CHED.

Meanwhile, Ms. Jane Camille A. Crisostomo of the College of Agriculture attended the three-day training workshop on halal slaughtering and certification at Putrajaya, Malaysia.

The training workshop was co-sponsored by SEARCA and the Universiti Putra Malaysia - Halal Products Research Institute aims to further enhance the capacities of halal professionals, practitioners, policymakers, and other key players and stakeholders on Halal slaughtering and certification to support the development of the halal industry in their respective countries and the ASEAN region.



## CAG and URC Faculty and Staff Participate in Innovation for Resilient Agriculture - International Conference in Chiang Mai, Thailand

Four faculty researchers from the College of Agriculture (CAG) and University Research Center (URC) attended the Innovation for Resilient Agriculture - International Conference at Chang Mai, Thailand.

Two faculty members presented their posters namely, Ms. Xarin Xara Sto. Domingo who presented "Climate

Resiliency of Rice Farmers under Rainfed Ecosystem at Brgy. Bungo, Gapan City, Nueva Ecija, Philippines" and Mr. Dionie S. Barrientos who presented "Growth and Yield Response of Black Soybean (*Glycine max* L.) to the Different Levels of Organic Fertilizer Supplemented with Fish Amino Acid." Asst. Prof. Katherine Bautista also accompanied the team headed by Dr. Alona T. Badua, Acting Dean of the CAG.

## ICCEM Participates in the 6th UC Summer School in Indonesia

The Institute for Climate Change and Environmental Management - College of Science (ICCEM-CoS) represented by Mr. Edmark P. Bulaong, participated in the Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) which conducted the 6th UC Summer School with the theme "Crop Diversification, Mixed Cropping, and Risk Management in Smallholders' Agriculture in the Context of Climate Change" on November 13-17, 2022 held in Banyuwangi Regency and Malang, Indonesia.

The UC Summer School was jointly organized by Universitas Brawijana (UB) and L'Institut Agro of France. A total of 31 participants from UC member universities and L'Institut Agro of France enhanced their knowledge and capabilities in integrated sustainability assessment of production systems through active learning. They collectively crafted a framework for the assessment of mixed cropping and risk evaluation in smallholders' agriculture.



## CF Dean Visits 2 US Universities

To keep pace with the rapidly changing education paradigms through internationalization, Dr. Ravelina R. Velasco, Acting Dean of the College of Fisheries (CF), visited two universities in the United States (US).

Dr. Velasco met with Dr. Sylvain De Guise, Director of the University of Connecticut (UConn) Sea Grant, who toured her around and made discussions on possible areas of collaboration on coastal ecosystems, environmental literacy, resilient communities, and aquaculture & fisheries. UConn Sea Grant, located at the UConn Avery Point Campus, is a state and federal partnership between UConn and the National Oceanic and Atmospheric Administration's National Sea Grant College Program.

Meanwhile, Dr. Velasco also had her reciprocal visit to the University of Rhode Island (URI) in Narragansett

Bay Campus and their main campus in Kingston, Rhode Island wherein earlier on, Dr. Michael A. Rice, a professor from URI, visited CLSU and presented their international dual degree program.

A round table discussion on international dual degree programs and student and faculty exchange was held with URI key officials led by Dr. Kristin Johnson, Vice Provost for International Initiatives, along with Dr. John H. Kirby, Dean of the College of the Environment and Life Sciences (CELS), the three associate Deans of CELS, Dr. Becky Sartini (Academic Programs), Dr. Cheryl Wilga (Research Programs), and Dr. Lisa Townson (Cooperative Extension Programs), and Dr. Marta Gomez-Chiarri and Dr. Rice of the Department of Fisheries, Animal and Veterinary Sciences as well as their representatives from the Research Administration Office.



## BaCaDM Research Team Attends Coordination Meeting in Japan

After a year of implementation, the Joint Coordination Committee of the Banana and Cacao Disease Management (BaCaDM) Project implemented under the Science and Technology Research Partnership for Sustainable Development (SATREPS) initiatives of the Japan International Cooperation Agency (JICA), held its first in-person meeting at the Tamagawa University (TU), Machida, Tokyo, Japan.

University President Dr. Edgar A. Orden led the delegation, together with Dr. Renato G. Reyes, Vice President for Academic Affairs and Principal Investigator, Dr. Jerwin Undan, Dr. Rich Milton Dulay, Dr. Garry Benico, Dr. Parsons Hail, project leaders, and Dr. Dionisio Alvindia, OIC Executive Director of the Philippine Center for Postharvest Development and Mechanization.



# Foreign Professors

## University of Rhode Island Professor Discusses Possible Collaboration with CLSU

The Freshwater Aquaculture Center and College of Fisheries welcomed Dr. Michael A. Rice, a fisheries and aquaculture Professor from the University of Rhode Island (URI), USA, on June 30, 2022.

Dr. Rice gave a presentation where the two universities could collaborate in providing quality education through online courses. Moreover, he presented the international dual degree program offered by the URI online. Meanwhile, there were discussions on the possibility of carrying out an exchange students and faculty program.

## Professors from University of Tokyo Visit CLSU for Research Implementation

Dr. Garry A. Benico, a faculty member of the Department of Biological Sciences and team hosted Dr. Mitsunori Iwataki and Dr. Kazuya Takahashi, professors from Asian Research Center for Bioresource and Environmental Sciences of the University of Tokyo, for a 3-day visit on May 25-27, 2022 as part of their collaboration research project on the "Distribution and Diversity of Harmful Kareniacean Dinoflagellates in Philippine Coastal Waters," funded by the DOST-JSPS Joint Scientific Research Program.

## Tamagawa University & Mie University Experts to Serve as Adjunct Professors

Dr. Kyoko Watanabe and Dr. Koji Ishikawa from Tamagawa University, and Dr. Chiharu Nakashima from Mie University signed a Notice of Appointment with CLSU to internationalize academic and research activities, held last June 14, 2022, at DHTM Lounge.

The Notice of Appointment contains the designation of the adjunct professors who will teach specialized courses to graduate students from the College of Agriculture, College of Science, and College of Arts and Social Sciences.

# Emerging Collaborations with other Nations

## British Embassy



The British Embassy of Manila, led by Political Counsellor Iain Cox, visited CLSU as part of their effort to advance the bilateral relationship between the Philippines and the United Kingdom.

A short program was held wherein different technologies about smart farming practices that would make agriculture more efficient, productive, sustainable, and globally competent were presented.

Political Counsellor Cox also toured around the newly inaugurated Precision and Digital Agriculture Center (PreDiCt) to see the different technologies about smart farming practices that would make agriculture more efficient, productive and sustainable.

## Israel Embassy

To provide assistance to farmers and further strengthen the partnership with CLSU and Israel Embassy, Mr. Ilan Fluss through its Agency for International Development Cooperation (MASHAV), unveiled the Philippine-Israel Smart Agriculture Extension and Training Services (PhilSmart) Project located at the KAMALIG S&T Agritourism Site to show their support to the emerging smart agriculture in the Philippines. The PhilSmart Project featured the technology on automated drip irrigation which automates the process of watering and fertilizing (fertigation) plants using a distance mobile application.

One of the beneficiaries of the said project is the KALASAG Multi-Purpose Cooperative through the assistance of the University Extension Center.



# International Certification Efforts



## CLSU as a Sustainable University in PH

The Central Luzon State University (CLSU) was among the Philippine universities included in this year's global impact rankings which performed best in the goal of conserving the aquatic ecosystem and using global water resources sustainably through the initiatives led by the College of Fisheries and Freshwater Aquaculture Center (FAC), as well as in the goal of combating climate change and its impacts through the stewardship of the Institute for Climate Change and Environmental Management (ICCEM).

The University also demonstrated its strong achievement in the goal of combating national hunger through development of professionals and experts in the field of agriculture, goal supporting the land and ecosystem through its policies and actions in sustainable management of its terrestrial resources for educational and tourism purposes, and goal of affordable and clean energy through its programs in reducing carbon emissions, efficient use of energy on campus, and research on renewable energy.

The ranking of the University in the different SDGs are as follows: No Poverty (401-600), Zero Hunger (201-300), Quality Education (800-1000), Gender Equality (401-600), Affordable and Clean Energy (301-400), Sustainable Cities and Communities (601+), Climate Action (101-200), Life Below Water (101-200), Life on Land (201-300), and Partnerships for the Goals (601-800).

## CLSU is a Pioneer Member of PH Internationalization Network for HEIS

The Central Luzon State University (CLSU) joined the ranks of pioneering members of the Philippine Internationalization Network (PHL IN-NET) after University President Dr. Edgar A. Orden signed the joint letter of commitment together with nine other Philippine universities and European partners during the First National Conference on the Internationalization of Philippine Higher Education.

The PHL IN-NET is an off-shoot of the ANTENA Project on the Internationalization of Higher Education Institutions (HEIs) in the Philippines which was coordinated by the Commission on Higher Education and co-funded by the Erasmus+ Program of the European Union.

As a member of PHL IN-NET, the University will be able to further strengthen its internationalization programs through collaboration with partner members and its European network.



# Student Services

## Career Development Program

With the aim to enhance student's skills and knowledge that will help them deal with the most fundamental yet relenting issues they face in college, the Career Development Program Webinar Series 2022 was created.

The webinar series with the topic "Sustaining and Developing Skills for Career Readiness," was launched by the Office of Student Affairs Career Development and Employment Services Unit (OSA-CDESU) in October.

The first of the webinar series entitled "Career Pathing for First-Year College Students" was held last

October 12, 2022. Mrs. Joan Katrina B. Pelagio served as the resource speaker.

Moreover, the second part of the webinar series titled "Understanding Self in the Career World for Third-Year College Students" was conducted last October 26, 2022, with Ms. Aiza Oco from Prosple Philippines as resource speaker.

The webinar series was facilitated via Zoom and live-streamed on the Official OSA Facebook Page.





## **Pre-Employment and Labor Education Webinars**

One of the programs of the Office of Students Affairs conducts a Pre-Employment and Labor Education Webinar for graduating students to preview and learn important topics to prepare for hiring in the industry. With the mandate of the Department of Labor and Employment to strengthen labor education to equip new graduates with skills and information on work ethics, the culture of productive and decent work, and other responsibilities in the workplace, CDESU prepared a series of pre-recorded videos that tackled topics about Online Application, Handling Work-Related Stress, and Financial Freedom.



## **Association of CLSU Affirmative Parents (ACAP)**

To assure the welfare of the students, the Office of Student Affairs (OSA) in cooperation with the parents and guardians established and launched the Agapay for CLSU Affirmative Parents (ACAP) which held its first general assembly on October 29, 2022, via Zoom. The output of the general assembly was the establishment of a new set of officers of the CLSU Parents/Guardians and Teachers Association (PGTA).



## **Re-orientation activity for Guidance Coordinators**

The Guidance Services Unit (GSU) of OSA, conducted a face-to-face Values Re-orientation for College Guidance Coordinators and Department Guidance Coordinators at Tan Hall, College of Education on September 15, 2022. The seminar aims to capacitate the college and department guidance coordinators in basic skills to help them understand their roles in assisting students.



# Transformative & Enabling Environment





# Facilities Development and Improvement

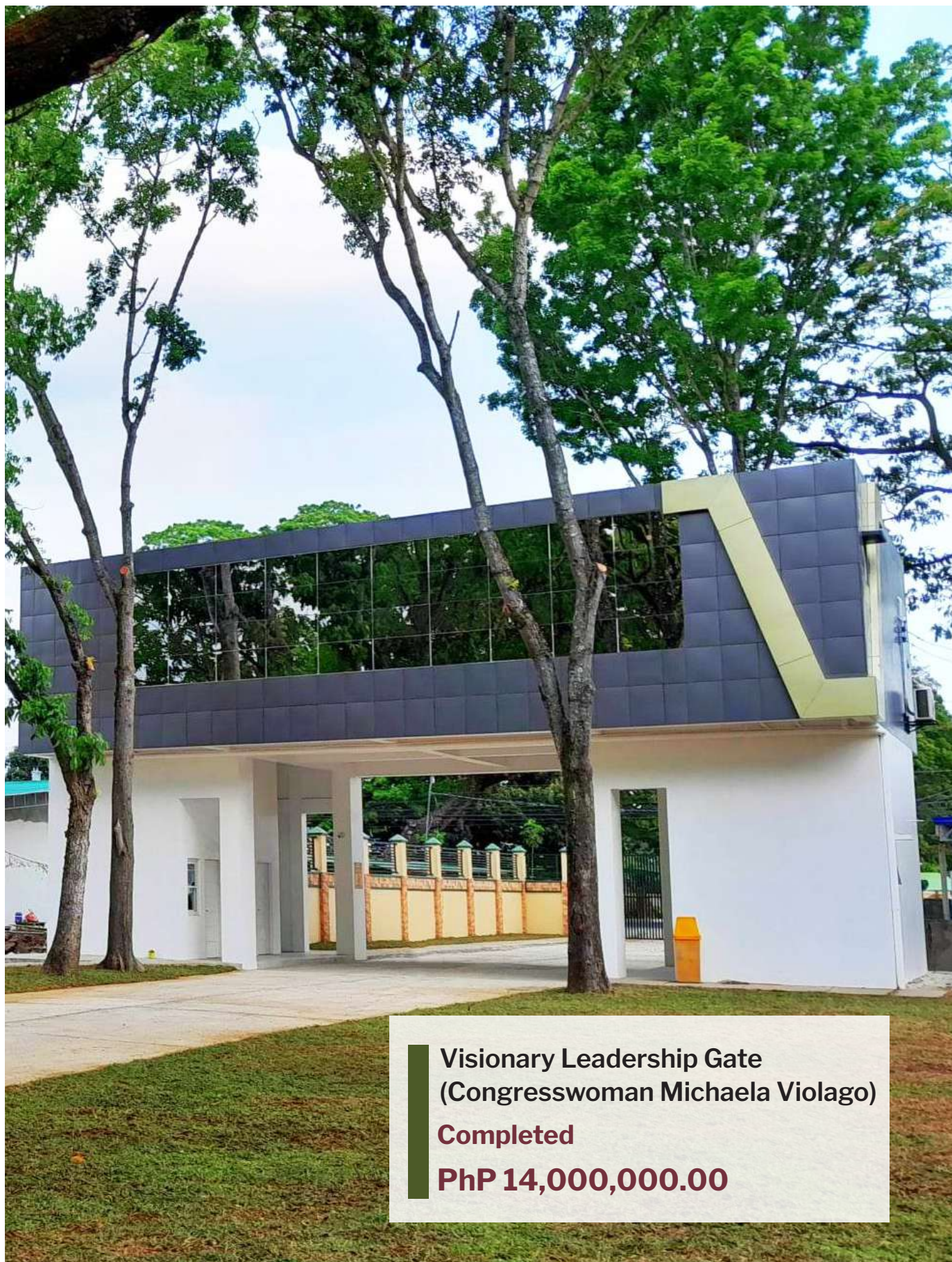
Gearing towards international standards, the University constantly improves its infrastructure and equipment through building state-of-the-art facilities, research laboratories and smart classrooms. A total of 21 capital outlay and equipment amounting to P58,566,023.28 were completed and delivered in year 2022 while construction of 5 buildings amounting to P66,367,993.22 are still on-going.



**International Studio**

**Completed**

**PhP 10,000,000.00**



**Visionary Leadership Gate  
(Congresswoman Michaela Violago)**

**Completed**

**PhP 14,000,000.00**

## Repair and Improvement of Science and Technology Centrum

**Completed**

**PhP 1,322,634.95**



## Other Completed Infrastructures

| <b>Infrastructure</b>                                                                                                                | <b>Budget (PhP)</b> |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Rehabilitation and Renovation of Building and Facilities in Poultry Module 1                                                         | 3,159,140.44        |
| KAMALIG Agritourism Site                                                                                                             | 2,000,000.00        |
| Repair and Renovation of 3 Comfort Rooms and Pantry in the OSA Building                                                              | 487,187.45          |
| Repair and Improvement of ICCEM Building and Climate Change Center                                                                   | 2,650,600.00        |
| Repair and Rehabilitation of RCR Farm in Sta. Rosa, Jaen, Nueva Ecija (Ensuring Sustained Availability of ITIK-PINAS)                | 2,085,156.08        |
| Rehabilitation of Stockroom and Constriction of Conditioning Tank with Waterline System and Upgrading of Secondary Power line supply | 1,756,042.42        |
| Rehabilitation of CLSU Guest House (Phase I)                                                                                         | 2,556,141.95        |
| Proposed Rehabilitation PPSDS Building Phase 2                                                                                       | 2,683,497.87        |
| ICT Infrastructure Upgrading for CLAARRDEC and Selected CMLs                                                                         | 5,000,000.00        |
| Renovation and Improvement of DOT-UNI Lobby and Exhibit Room/Computer Room                                                           | 723,692.14          |
| Repair and Improvement of GAD Development Center                                                                                     | 958,347.68          |
| Upgrading of the CLSU RM-CARES Organic Farming Training Facility (Storage and Comfort Rooms)                                         | 789,697.64          |
| Repair and Replacement of USF Roofing and Ceiling                                                                                    | 630,874.45          |
| Improvement of Comfort Rooms at University Science High School                                                                       | 127,918.50          |
| Repair of a Dome-Type Greenhouse with Dimension of 17m x 9m x 4.2m                                                                   | 148,605.60          |
| Renovation of the Manufacturing Facility for Probiotics and Prebiotics at CLSU-AFTBI Building                                        | 217,708.20          |



**Repair and Improvement of CLSU  
Student Union Building**

**Ongoing**

**PhP 4,618,029.29**

**College of Science Smart Building**

**Ongoing**

**PhP 11,239,690.41**



**Construction of Community  
Market (Phase I)**

**Ongoing**

**PhP 21,487,611.85**



## Other Ongoing Infastructure Projects

| Infastructure                                                                                       | Budget (PhP)  |
|-----------------------------------------------------------------------------------------------------|---------------|
| Swine Module 1                                                                                      | 4,041,730.20  |
| Construction of Food Innovation and Training Facility                                               | 25,000,000.00 |
| Renovation of CTEC Office                                                                           | 1,466,250.45  |
| Renovation and Improvement of Comfort Room in the building of Department of Mathematics and Physics | 1,184,498.17  |
| Upgrading of Food Processing Research and Development Facility of CLSU                              | 4,598,960.76  |



# Upgrading of Services

## Operation of the University Canteen

To cater the needs of students, faculty, and staff in terms of food services, the newly renovated University Canteen (UC) has a maximum seating capacity of 200 students serving meals for breakfast, snacks, lunch and dinner.

Its new feature includes a coffee corner which offers a variety of coffee flavors which can accommodate 15 people. The upgraded facility also caters the CLSU

Community and other stakeholders who are visiting the university campus.

On its daily on-site operation under the management of the University Business Affairs Program, the UC caters an average of 130 clients per day. For catering services, it can prepare a maximum of 600 meals in a day.



# Equipment

## Agras T30 Agricultural Drone

The Philippine Sino Center for Agricultural Technology (PhilSCAT) acquired a 30-liter agricultural drone for spraying and broadcasting seeds and fertilizer. The Agras T30 amounting to Php 1.5M features a spraying system with 2 plunger pumps, 12 operating nozzles, and an imaging radar with an altitude detection range of 1.5 to 30 meters to offer an even and accurate spraying on crops



# Strengthening Human Resources



## Scholars who commenced their advanced degrees in 2022

| Name                                  | Status  | Degree / Field of Specialization                 | University                                  | Scholarship                                |
|---------------------------------------|---------|--------------------------------------------------|---------------------------------------------|--------------------------------------------|
| <b>Britanico, King Philip G.</b>      | Ongoing | Master of Arts in Letters                        | Far Eastern University                      | CLSU Faculty and Staff Development Program |
| <b>Cara, Evelita V.</b>               | Ongoing | Master of Science in Language and Literature     | University of the Philippines – Baguio City | CHED-SIKAP                                 |
| <b>De Dios, Ma. Johanna</b>           | Ongoing | PhD in Sustainable Food System                   | University of Liverpool, UK                 | CHED-Transnational Education               |
| <b>De Leon, Emily F.</b>              | Ongoing | PhD in Development Studies                       | De La Salle University                      | CHED-SIKAP                                 |
| <b>Gamilla, Anazel P.</b>             | Ongoing | Doctor in Information Technology                 | University of Cordilleras                   | CHED-SIKAP                                 |
| <b>Romero, Ellen S.</b>               | Ongoing | PhD in Sustainable Food System                   | University of Liverpool                     | CHED-Transnational Education               |
| <b>Pineda, Rence Marrion</b>          | Ongoing | PhD in Biological Resources                      | Tamagawa University, Japan                  | JICA Knowledge Co-creation Program         |
| <b>Castillo, Diana</b>                | Ongoing | PhD in Applied Microbiology                      | Chiang Mai University, Thailand             | DOST                                       |
| <b>Samson, Jaypee S.</b>              | Ongoing | PhD in Biological and Environmental Sciences     | University of Rhode Island, USA             | CHED                                       |
| <b>Bartolome, Nest Dale</b>           | Ongoing | MS in Theriogenology                             | Chulalongkorn University, Thailand          | ASEAN and Non ASEAN Scholarship            |
| <b>Pascual, Christopher</b>           | Ongoing | PhD in Biological and Agricultural Engineering   | Mapua University                            | DOST-ERDT                                  |
| <b>Manalastas, Ma. Yna Diane</b>      | Ongoing | MS in Statistics                                 | University of the Philippines, Diliman      | DOST                                       |
| <b>Lalugar, Casimiro C. Jr.</b>       | Ongoing | MS in Animal Science                             | Chungbuk National University, Korea         | Global Scholarship Korea                   |
| <b>Ponce, Ella Joy A.</b>             | Ongoing | PhD in International Studies                     | Ewha Women's University South Korea         | Higher Education for ASEAN Talent          |
| <b>Paragas, Ella Joyce S.</b>         | Ongoing | PhD in Statistics                                | University of the Philippines, Diliman      | CHED                                       |
| <b>Calang, Ken G.</b>                 | Ongoing | PhD in Multicultural Studies                     | Mahidol University, Thailand                | CLSU Faculty and Staff Development Program |
| <b>Libunao, Charizza Bianca L.</b>    | Ongoing | MA in Political Science                          | De La Salle University                      | CLSU Faculty and Staff Development Program |
| <b>Pangilinan, Dan Charlie Joy C.</b> | Ongoing | PhD in Biological Researches                     | Tamagawa University, Japan                  | JICA                                       |
| <b>Pangilinan, Paul John</b>          | Ongoing | MS in Soil Science                               | Europe                                      | Erasmus Mundus                             |
| <b>Esteban, Allan Jay A.</b>          | Ongoing | PhD in British and American Language and Culture | Kyung Hee University, Korea                 | Higher Education for ASEAN Talent          |
| <b>Parchamento, Jackson</b>           | Ongoing | PhD in Filipino                                  | Mindanao State University                   | CHED-SIKAP                                 |
| <b>Canare-Duran, Perry Lorraine</b>   | Ongoing | PhD in Sustainable Resources System              | Mie University, Japan                       | JICA                                       |
| <b>Agustin, Ace Mugssy</b>            | Ongoing | PhD in Agricultural Sciences                     | Nagoya University, Japan                    | DOST                                       |

## Faculty scholars who completed their advanced degrees in 2022

| Name                             | Degree Earned           | University                              | Scholarship                                 |
|----------------------------------|-------------------------|-----------------------------------------|---------------------------------------------|
| De Guzman, Mary Grace J.         | MS in Civil Engineering | Mapua University                        | CLSU Faculty & Staff Development Program    |
| Frias, Maria Francesca Coreen T. | MA in Education         | Ateneo de Manila University             | CHED K to 12 Transition Scholarship Program |
| Parugrug, Maribeth L.            | PhD in Entomology       | University of the Philippines Los Baños | DOST-ASTHP                                  |

A total of 19 faculty members successfully completed specialized training or short courses. These courses or training programs were attended with the support of the following: Edukasyon.PH, the Commission on Higher Education (CHED), the Department of Tourism (DOT), the American Hotel and Lodging Education Institution (AHLEI), the Philippine Computer Society

(PCS), the International Continuing Professional Education (ICPE) Grant, the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), and the Japan International Cooperation Agency (JICA).

## Faculty members who completed a specialized training/short course in 2022

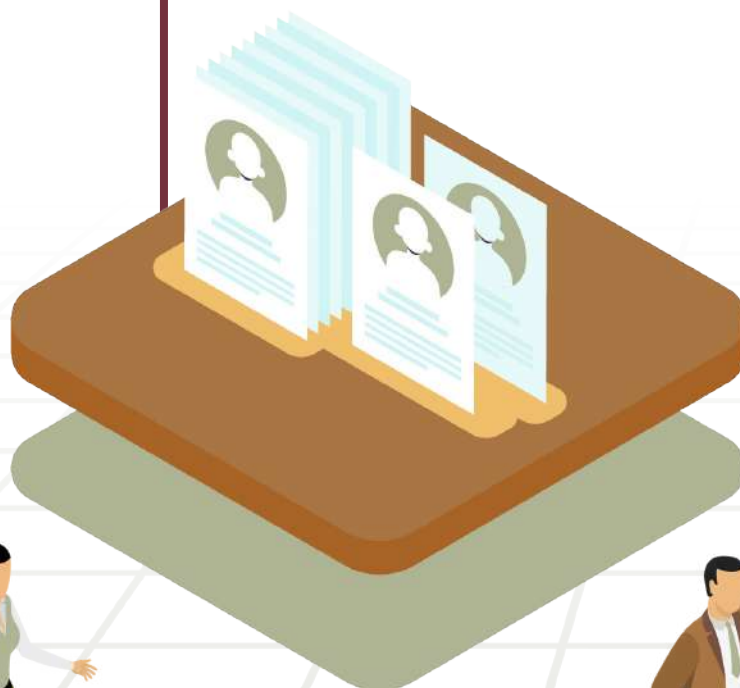
| Name                       | Training/Course                                                                                                                                     | Host HEI/Country                                             | Scholarship                                              |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|
| Villanueva, Evelyn A.      | AWS Cloud Practitioner Bootcamp                                                                                                                     | AWS and Edukasyon.Ph                                         | Edukasyon.PH                                             |
| Eugenio, Rovilyn D.        | Sustainable Innovative Knowledge Application for Tourism (SIKAT)                                                                                    | University of Alicante, Spain                                | CHED and DOT                                             |
| Gutierrez, Brigitte Ann M. | CGSP                                                                                                                                                | USA                                                          | American Hotel and Lodging Education Institution (AHLEI) |
| Paragas, Ella Joyce        | Data Science Workshop (Analytics and Architecture: Working with Big Data at Amihan)                                                                 | Polytechnic University of the Philippines, Manila            | None                                                     |
| Tejada, Onneth O.          | Training-Workshop Series on Disease Modeling with Numerical Simulations (Modeling and Simulation of Disease Dynamics using an Agent-Based Approach) | Caraga State University                                      | None                                                     |
| Peneyra, Ruel              | Solar Powered Irrigation System                                                                                                                     | Institute of Tourism And Hospitality Professional            | None                                                     |
| Villanueva, Evelyn         | Certified Hospitality Professional                                                                                                                  | Information Security Essentials Certification (ISEC) Program | Philippine Computer Society (PCS)                        |

| Name                                                         | Training/Course                                                                                                                                   | Host HEI/Country                                                                                      | Scholarship                                                  |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Dumale, Justin V.                                            | Basic GIS TRaining using ARC-GIS                                                                                                                  | NAMRIA                                                                                                | None                                                         |
| Rengel, Davelyn P.                                           | Basic GIS TRaining using ARC-GIS                                                                                                                  | NAMRIA                                                                                                | None                                                         |
| Abella, Gella Patria L.                                      | Curriculum Development in Agroecology (CDAE)                                                                                                      | Hue University                                                                                        | None                                                         |
| Juganas, Daryl A.                                            | International Summer Course on Agricultural and Ecosystems Resilience to Environmental Disaster Towards Regional Sustainability                   | Institut Pertanian Bogor (IPB) University, Indonesia                                                  | International Continuing Professional Education (ICPE) Grant |
| Caguiat, Lea S.                                              | Study visit to the Philippines: Capacity building of Administrative and academic staff on Curriculum Development in Agroecology (CDAE)            | Benguet State University                                                                              | None                                                         |
| Eugenio, Rovilyn D.                                          | Sustainable Innovative Knowledge Application for Tourism (SIKAT)                                                                                  | University of Alicante, Spain                                                                         | CHED and DOT                                                 |
| Camaso, Eliza E.                                             | 2022 International Summer Course for Agriculture and Ecosystem Resilience to Environmental Disaster toward Regional Sustainability                | IPB University, Indonesia                                                                             | SEARCA                                                       |
| Reyes, Renato G., Undan, Jerwin R. and Dulay, Rich Milton R. | Establishment of the Mycological Genetic Resource Section and the Disease Diagnostic Section for High Value Crops of the CLSU/Tamagawa University | JICA Tokyo Center, Tokyo, Japan                                                                       | Japan International Cooperation Agency                       |
| Benico, Garry A.                                             |                                                                                                                                                   |                                                                                                       |                                                              |
| Estigoy, Jaypee H.                                           | Hydroponic Technology for Leaf and Fruit Vegetables                                                                                               | Rural Development Administration: National Institute of Horticultural and Herbal Science, South Korea | KoRAA Long-term Training Courses                             |
| De Leon, Angeles M.                                          | Philippine-Canada Education and International Collaborative Partnership Consortium (PhilCanEDUCON)                                                | University of Saskatchewan, Canada                                                                    | None                                                         |



# Faculty & Staff Profile

**508** Faculty Members with Plantilla  
**463** Non-Academic Staff with Plantilla  
**356** Job Order/Contract of Service  
**7** Part-time Lecturers



**140** Doctorate Degree Holders  
**236** Master's Degree Holders  
**132** Baccalaureate Degree Holders

**3** University Professors  
**52** Full Professors  
**171** Associate Professors  
**91** Assistant Professors  
**191** Instructors



# Other Employee Development Activities

## ADCO Planning Workshop

The Administrative Council (AdCo) Planning Workshop and Development Review is an annual activity conducted by the Central Luzon State University in preparation for the foreseen challenges in the upcoming year.

This year's planning workshop was held at San Fernando, La Union and attended by the members of the AdCO composed of the university president, vice presidents of the four major programs, deans and directors, the president of the Faculty Association Inc., and the Chair of the University Supreme Student Council.

During the workshop, accomplishments and several concerns were raised and discussed including the enhancement of internet connectivity in the campus, application of CLSU International Journal of Science and Technology (IJST) and CLSU International Journal of Education and Development Studies (IJEDS) towards Scopus indexing, Profitability Analysis of Technologies Featured in KAMALIG, and the University Transport Services among others. Moreover, the activity provided an avenue to present the future plans and commitments for the succeeding years led by each Vice President as their commitment in attaining the University's Strategic Goals.



## CLSU Joins CSC on its 122nd Anniversary Celebration

The Civil Service Commission (CSC) together with other government institutions celebrated the 122nd Philippines Civil Service Anniversary last September 2022 with the theme “Transforming Public Service in the Next Decade: Honing Agile and Future-Ready Servant-Heroes”.

As part of the celebration, the CLSU Administrative Services Office (ADSO) and Human Resource Management Office (HRMO) held a month-long activity which recognized the contributions of the CLSU civil servants. The celebration marked the first time in two years after the pandemic where the employees conducted face-to-face activities to celebrate the annual Philippine Civil Service Anniversary.

The celebration kicked-off with the Sagip Kalikasan sa Lingap Kalikasan, a tree planting activity participated by CLSU employees on September 5, 2022 at the Lingap Kalikasan Park followed by a Zumba Dance Activity conducted every Monday of September. Meanwhile, Dr. Jennifer T. De Jesus and Mr. Michael E. Santos were hailed as 1st Runner Up in the Ballroom Dancing competition.



## 115th Founding Anniversary Celebration

The University celebrated its 115th founding anniversary from April 11 to 12, 2022 with the theme “CLSU@115: Continuing Legacy for a Sustainable University”. The two-day event traced back the significant milestones of the University from being a farm school to becoming one of the leading Higher Education Institutions in the country.

As a prelude to the main event, a celebratory walk or parade, tree planting, and paper boat sailing activities were conducted at the University grounds. A total of 115 native trees (Palawan Cherry Blossoms, Ylang-ylang and Dungon) were planted around the newly-developed Zen Garden, symbolizing the years since the establishment of then agricultural school.

Moreover, as the highlight of the celebration, the inauguration and blessing of the newly-renovated Reimers' Hall, ceremonial turn-over of information management system server from PHilMech and the State of the University Address, were conducted.



# Compliance to International Standard

CLSU retained its status for the ISO 9001:2015 certification after passing the second surveillance audit administered by the external auditors from SOCOTEC held on May 12, 2022, via Zoom.

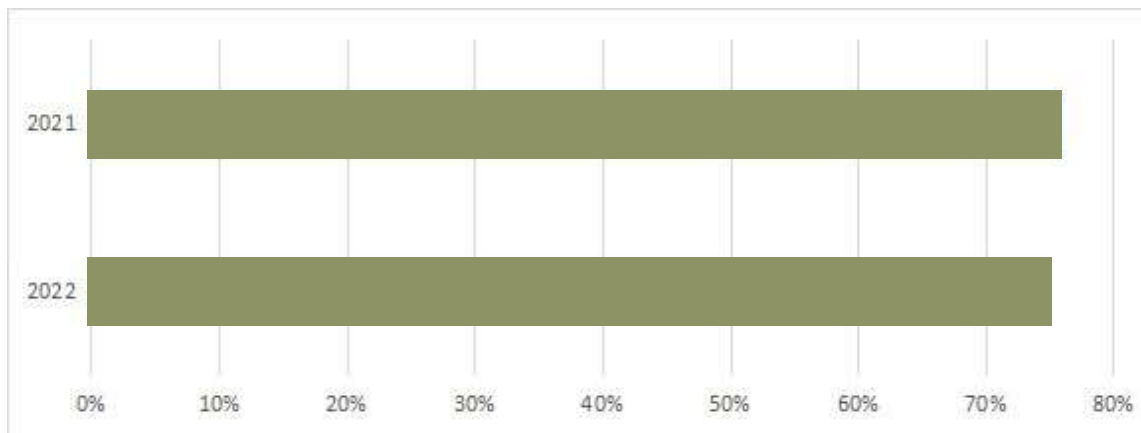
The surveillance audit is a regular process conducted by the SOCOTEC, an international body providing management systems assessment and accrediting ISO certification services, which will assist the institution for its recertification audit in 2023.



# IAS Audit Report

For Calendar Year (CY) 2022, as certified by the Commission on Audit (COA), the University through the Internal Audit Services, was able to fully implement a total of 27 out of 36 (75%) recommendations by the resident auditors.

## Fully Implemented Recommendations



## Implementation Status of Audit Recommendations

|                              | 2021<br>(Recommendations for CY 2021<br>and previous years) | 2022<br>(Recommendations for CY 2022<br>and previous years) |
|------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Total No. of Recommendations | 29                                                          | 36                                                          |
| Fully Implemented            | 22 (75.86%)                                                 | 27 (75%)                                                    |
| Partially Implemented        | 5 (17.24%)                                                  | 5 (16.67%)                                                  |
| Not Implemented              | 2 (6.90%)                                                   | 3 (8.33%)                                                   |

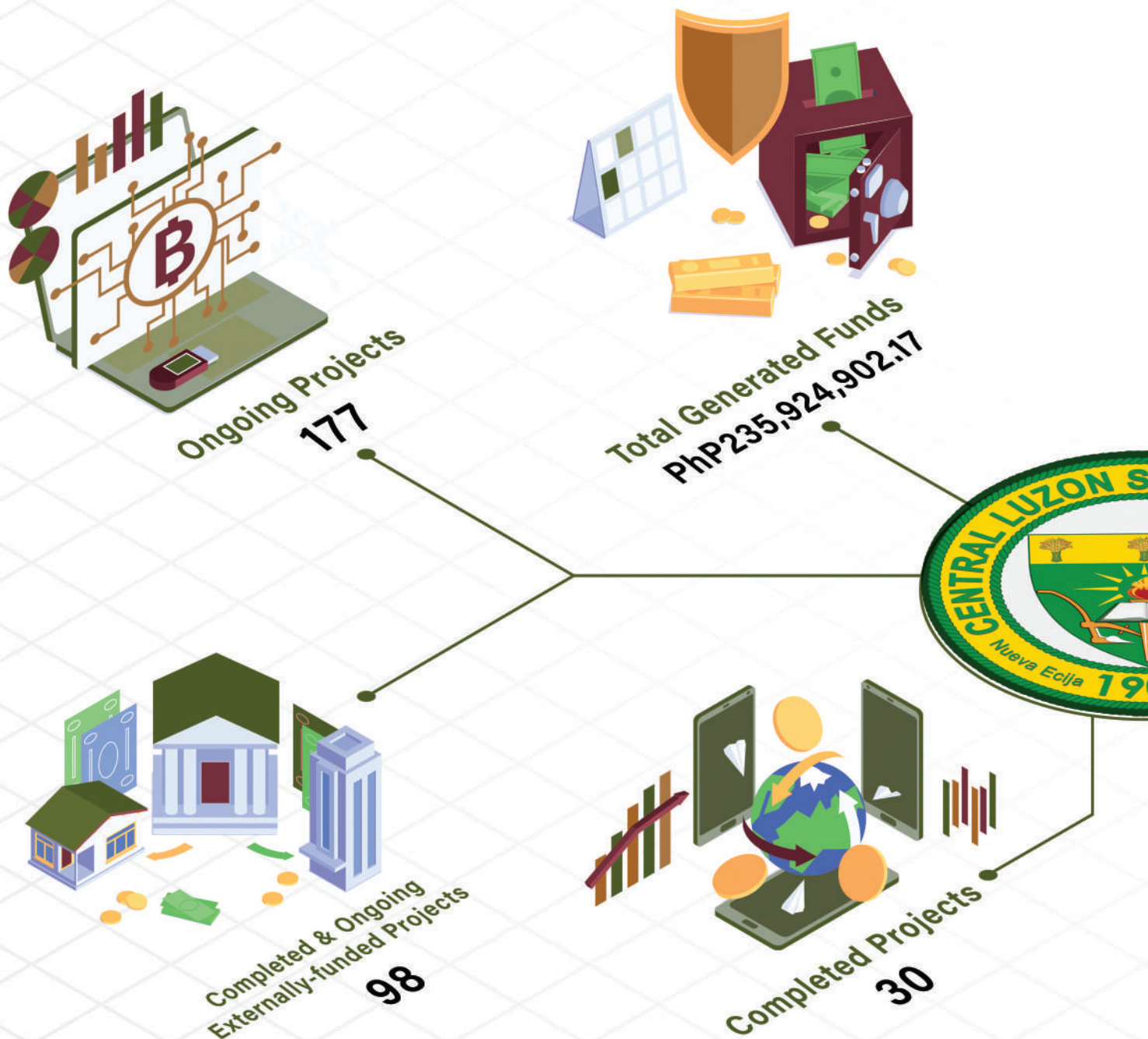


# Breakthroughs in Knowledge Innovation





# Research & Development Grants





## Funding Agencies



**Livestock International**  
SAVE Candelaria, Zambales  
Movement, Inc.

# Research and Publication

**58**

Published Papers in  
Scopus Journals. These  
were outputs from the 76  
completed research.

**77**

Faculty-Researchers  
with Scopus  
Publication

## Top 10 Most Cited CLSU Scientists

1. Mateo, Wendy C.
2. Benico, Garry A.
3. Villota, Elmar M.
4. Dulay, Rich Milton R.
5. Kalaw, Sofronio P.
6. Reyes, Renato G.
7. Badua, Sylvester A.
8. Peralta, Hazel Monica M.
9. Quiazon, Karl Marx A.
10. De Leon, Angeles M.

# Generated Technologies



## Development of a Solar-powered Multi-purpose Utility Vehicle

A solar-powered multi-purpose farm vehicle was developed to perform different agricultural activities such as service vehicle, hauler using a trailer, grain mixer for pavement sun drying, and as a power source for water pump used for surface irrigation.



## Mobile Solar Pump Irrigation System (SPIS)

The Mobile Solar Pump Irrigation System (SPIS) equipment is designed to provide reliable, cost-effective, and environmentally sustainable energy for decentralized irrigation services in a growing number of settings. SPIS can save up to 1 peso per cubic meter of water rather than the conventional fuel-powered pump. Also, it allows the farmers to save more inputs because SPIS requires minimal maintenance.

On the other hand, the design of the irrigation system was made mobile so that SPIS can be moved from farm to farm, thus, more farmers can be benefitted and more farms can be irrigated. It aims to irrigate/water plants beds, soil, or specific areas that will contribute to less human labor and avoid the use of a fuel-powered machine that contributes to the emission of toxic greenhouse gases.



## Variable Rate Fertilizer Sprayer

Based on the needs of the soil or crop across the field, this technology was designed for a real-time application of various levels of liquid solution fertilizer using a prescription map on a mobile device connected to the internet.

This technique lowers production costs and boosts crop productivity with less fertilizer applied incorrectly or excessively.

## Multi-Nozzle Knapsack Sprayer

This technology combines a multi-nozzle boom into the existing sprayer to improve its capacity and effectiveness. It guarantees the precise application of chemicals, thereby reducing its adverse effects on the environment.





## Prescription Mapping Technology

Using GIS technology, various field management zones that show field variability corresponding to crop nutrient needs can be identified. This prescription map can be used by farmers and growers to operate the variable rate fertilizer sprayer.

## Post-Harvest Machinery for Sunflower Production

The machine for sunflower threshing was fabricated and met the design requirement of 200 kg/hr. Moreover, all components were functional with an electric motor as its prime-mover while wheels were added in the design making the machine mobile and portable.

The mechanical damage done by thresher for sunflower seeds was also observed such that dry sunflower seeds break faster than freshly harvested samples. This may be due to the moisture content (MC) differences of seeds leading to higher mechanical damage for samples with low MC.

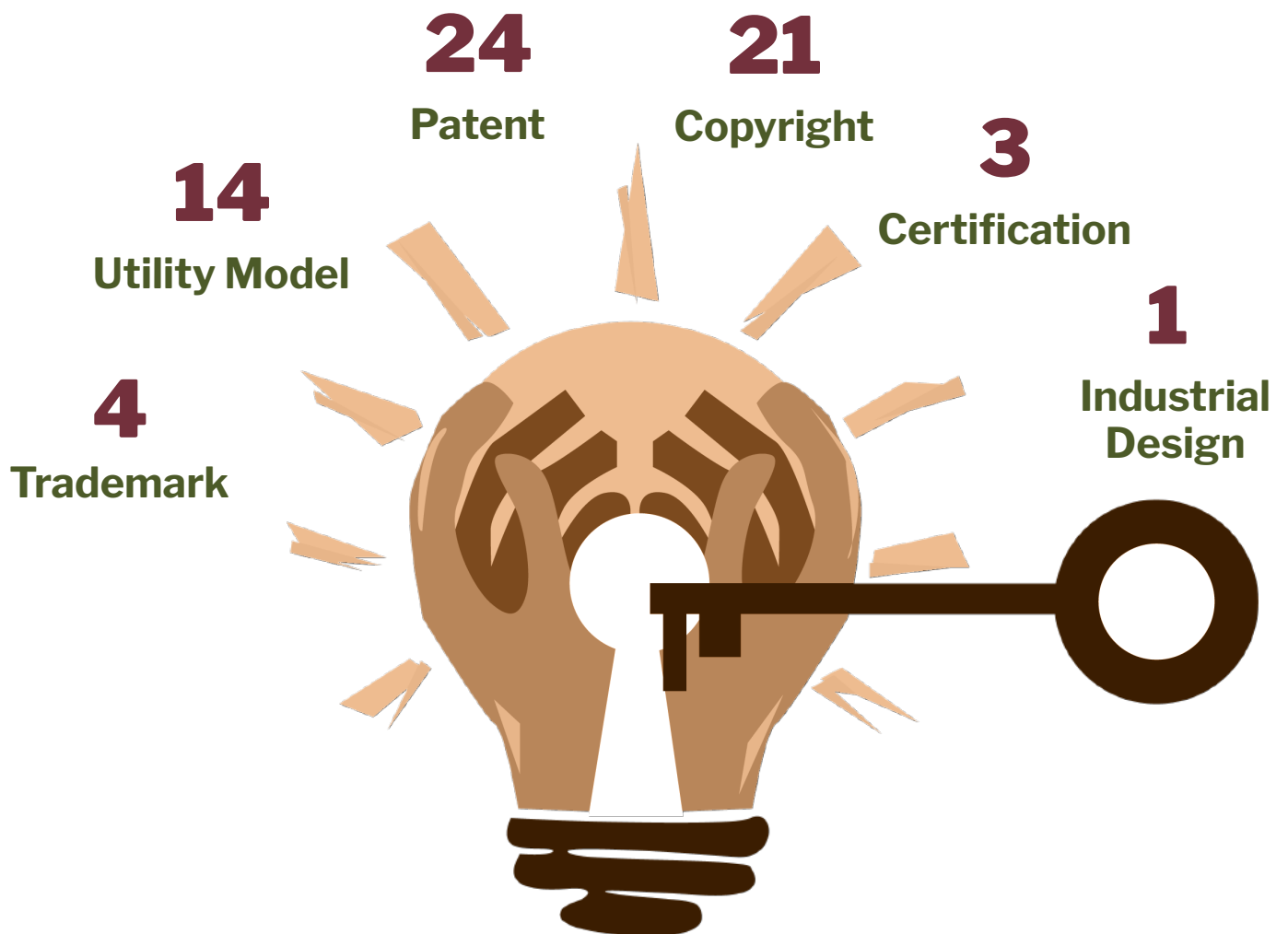


## Precision Onion Seeder

Farmers can evenly sow onion seeds with this machine, maintaining proper planting distance and spacing throughout the production area.

The precision onion seeder can lessen the manual work required for planting onions.

# Intellectual Property





# Maximum Impact through Proactive Engagement





# Technical Support, Extension Services, and Trainings

Through the initiatives of the University Extension Center, various programs like the Technology Village Program, BIDANI, PhilSmart, Agri-ATM Project, KEEP-SAFE (COVID-19), Livelihood Development for Indigenous Peoples (IPs) projects were implemented with beneficiaries like farmers cooperatives, indigenous people, and rural women groups from nearby municipalities and provinces within the Central Luzon region.





## LAKBAY AgriATM

The Agri Aral Tekno Mobil (AgriATM) program started its "Lakbay AgriATM: Agri, Set, Go! - Roadshow" extension series which capacitated farmers, fisherfolks, women, youth, and local extension workers in Tarlac, Pampanga and Nueva Ecija.

Equipped with educational materials and paraphernalia, the program team provided timely and quality education on agri-fisheries technologies specifically in goat raising, mushroom production, tilapia raising, and organic farming to the participants.



## **BUILDING BETTER COMMUNITIES: Transformation of Missed Opportunities into Economic Competitiveness thru Science and Technology**

This DOST-assisted project was awarded to CLSU under the 2021 Expanded Implementation of Community Empowerment Thru Science and Technology (CEST) in Nueva Ecija which targeted the municipalities of Cuyapo, Gabaldon and Pantabangan Nueva Ecija.

With the “Samahan ng Katutubong Dumagat sa Sitio Dupinga at Sitio Pag-Asa ng Barangay Malinao” in Gabaldon, Nueva Ecija as beneficiaries, stone processing equipment amounting to P268,720.00 was

loaned for one year to the participating members thru Mr. Randy Casamis, IPMR representative.

The equipment includes a jackhammer (5pcs), small-angle grinder (10 pcs), large angle grinder (10 pcs), 4 inches masonry circular blade (20 pcs), 7 inches masonry circular blade (20 pcs), buffing machine (10 pcs), chipping gun (10 pcs), and die grinding kit (10 pcs). These will be officially donated to the organization if the results of the monitoring would suggest the sustainability of the livelihood project.

# Trainings

The university conducted a series of technology and knowledge dissemination activities using different platforms and modality. These activities include a total of 248 trainings conducted either virtually or face-to-face participated in by a total of 22,962 farmers, researchers, students, cooperative officers/members and other stakeholders.

The training sessions were designed as interactive, with a mix of lectures, demonstrations, and hands-on activities to engage the participants and enhance their learning experience. The training sessions were conducted by the researchers and extension workers in their respective fields.





# 148 Trainings Conducted

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# 22,962 Trained Clients

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## GAD Trainings

The University Gender and Development Office (UGADO) conducted a total of 16 webinars and 4 training activities for students and employees, wherein they received 82% satisfactory rating by almost 2,610 participants who joined their initiatives in strengthening the campaign for gender equality in the University.

## CLSU Webinar Series Season 3

Since its implementation in June 2020, the Continuing Education Division of the University Extension Center continued the airing of the CLSU Webinar Series through its Facebook page and Zoom platform. A total of 6,270 online attendees were recorded from the 19 webisodes from February to November 2022, featuring different technologies on crops (organic farming, dragon fruit, mushroom), fisheries (catfish and ornamental fish farming), animals (buffalo, chicken, hog, goat), and others like plastic drum biogas digester, dairy milk processing, and fermented rice as livestock feed.



## Cooperative Training

As an accredited training provider by the Cooperative Development Authority and part of its commitment to support the cooperative movement for nation building, CLSU through the University Extension Center has lined-up a series of mandatory and optional training aimed at strengthening the capabilities of cooperatives across the country.

Through its participation in Cooperative Month 2022, a wide range of topics essential to the success of any cooperative were offered including the Allocation and Distribution of Net Surplus, Gender-Responsive Planning and Budgeting, Accounting for Non-Accountants, Entrepreneurial and Business Management, and Cooperative Governance and Management.

A total of 254 members and officials of cooperatives were capacitated to improve their operations, enhance their financial management skills, and strengthen their overall capacity to contribute to the communities they are operating in.



# Technology Transfer & Promotion



## Communal Vegetable Production Using Solar Powered Irrigation Systems and Tower Garden Technologies: Response to Community Quarantine and Beyond

Four elementary schools, one barangay and one farmer's association were selected as beneficiaries of the DOST-funded project on Communal Vegetable Production Using Solar Powered Irrigation Systems and the Tower Garden Technologies.

Aside from promoting innovation on agriculture and further encourage youth to see the benefits and aesthetic in farming, this initiative was also a response to provide alternative sources of food during the community quarantine period within the identified beneficiaries: Brgy. Conversion, Pantabangan, Nueva Ecija, Licaong Elem. School, Science City of Munoz, Nueva Ecija, Llanera Vegetables Production Association, Llanera, Nueva Ecija, San Jose Elem. School, Mayantoc Tarlac, Sta. Cruz Elem. School, Magalang, Pampanga, and San Ildefonso Elem. School, San Ildefonso, Bulacan.



To further promote the matured technologies of Central Luzon State University, three media personalities showcased the research outputs of the specialized R&D centers on Goat Technologies, Mushroom Production, Tilapia technologies, as well as the Engaging Food and Agriculture Resources Management (eFARM) academy project.



## Pamilya Talk with Jing Castañeda

The Pamilya Talk with Jing Castañeda televised every Sunday on ABS-CBN network, showcased the Engaging Food and Agriculture Resources Management (eFARM) academy project in partnership with the Commission on Higher Education (CHED) as part of the campaign on Edu-Tourism in State Universities and Colleges. The show featured technologies about goats developed by the Small Ruminant Center (SRC), mushroom production of the Center for Tropical Mushroom Research and Development (CTMRD), Zero-Waste Pig (ZWaP) at the College of Agriculture, and tilapia production of the Freshwater Aquaculture Center (FAC).



## Biyaheng Amianan

Chris Zuñiga, a journalist and vlogger, featured the various technologies of CLSU including the red tilapia of FAC, different species of sunflower cultivated by the University Research Center, Indoor Vertical Farming System of PreDiCt, as well as goat technologies from SRC. The video gained thousands of views and engagements on his Facebook Page and YouTube channel entitled Biyaheng Amianan.



## Farm to Table with Chef Jr Royol

The well-known chef, Mr. Jr Royol of GMA 7's Farm to Table series showcased his culinary skills using the different products of CLSU. He prepared a new dish using Tilading of FAC, baked pasta with mushroom of CTMRD and cheese from PCC at CLSU, and cooked an organic vegetable meal which he personally harvested from RM-CARES.



## Strengthening the University Extension Program: A Workshop on Harmonizing Extension Agenda and Designing High-Impact Extension Programs and Projects

A total of 81 extension coordinators from the different colleges and R&D centers participated in the 2-day workshop which aimed to craft a harmonized university extension agenda that is aligned with the 2021-2025 R&E agenda of the University.

Dr. Pastora S. Coloma, former Director of then Extension Office, now UEC, served as the Resource

Person. Part of the program included the presentation of each college/unit extension programs/projects and critiquing, book-launching, presentation of the Research and Extension Agenda (2021-2025), lecture proper and crafting/designing of extension programs/project aligned in the R&E agenda.

# Technical Advisory & Consultancy Services

**7,866** Technical Advisory

**3,100** Consultancy Services

## Techno Demo

**102** Techno Demo Sites/ Farms were established in 2022 by the different offices/ centers under R&E including ICCEM.





# Forged Linkages

Central Luzon State University (CLSU) has been fostering strong linkages with different institutions in pursuit of providing breakthrough researches, borderless education, and proactive engagement to community.

Through these successful collaborations and partnerships, CLSU has become a transformative university that explores the vast potentials of academe-industry partnership particularly in exchange student program, hosting of internship and improvement of curricular offerings that adheres to the emerging needs of the industry and society; improve the lives of people in the community through intensified technology transfer program that was made possible thru coalitions with the different local government units (LGUs), National Government Agencies (NGAs), and private institutions; utilize the university resources, facilities and expertise for income generation.

For 2022, the CLSU Board of Regents approved the collaboration with 4 international, 14 national, and 60 regional/local entities. Among these institutional partners, 22 are government units, 21 are academic institutions, 13 are R&D institutions, and 22 are non-government organization and private companies.





Globe

CHINABANK



Republic of the Philippines  
Local Government of Rizal  
Nueva Ecija Province



愛媛大学  
EHIME UNIVERSITY



Tamagawa  
Academy (K12) & University

LONGPING  
隆平高科

Department of Agriculture  
**PHILRICE**  
PHILIPPINE RICE RESEARCH INSTITUTE



VERA BELLA ENTERPRISES  
LIMITED CO.



IRRI  
International Rice  
Research Institute

Jollibee Group  
FOUNDATION

Northern Illinois  
University

गण्डकी विश्वविद्यालय  
Gandaki University



# Memorandum of Agreement/ Understanding



## MOU with GU to Strengthen International Collaboration for Academic and Research Programs

The MOU signing is the result of the perseverance of the College of Arts and Social Sciences (CASS) and the International Affairs Office (IAO) in their constant pursuit to establish a strong linkage with

foreign academic and research institutions that will assist in enriching academic programs, strengthen the research functions, and intensify the exposure of students to a different culture.

## Partnership with NIU for Possible Projects

The partnership with Northern Illinois University (NIU) was signed for possible collaboration in the different areas in the academic, research, and extension projects.



## Jollibee Group Foundation Engagement for Off-Season Onion Production

The new forged partnership with the Jollibee Group Foundation (JGF) aims to bring the agricultural technologies to the farmer-partner of the JGF under their Farmer Entrepreneurship Program. Through this partnership, the JGF commits to support the onion projects of the University particularly the off-season farming in their target areas.



## MOA with Yara Fertilizers Philippines to Promote Science-Based Farming

To foster collaborative efforts in agricultural production, CLSU formally inked a MOA with Yara Fertilizers Philippines Inc. - a Norwegian chemical company that produces, distributes, and sells nitrogen-based mineral fertilizers and related industrial products. This forged industry-academe collaboration is a new milestone for the University to strengthen partnerships and cooperation in finding new and practical solutions for farmers through knowledge-sharing and science-based farming.





# Business Affairs & Technology Commercialization





# Consolidated Income & Expenses

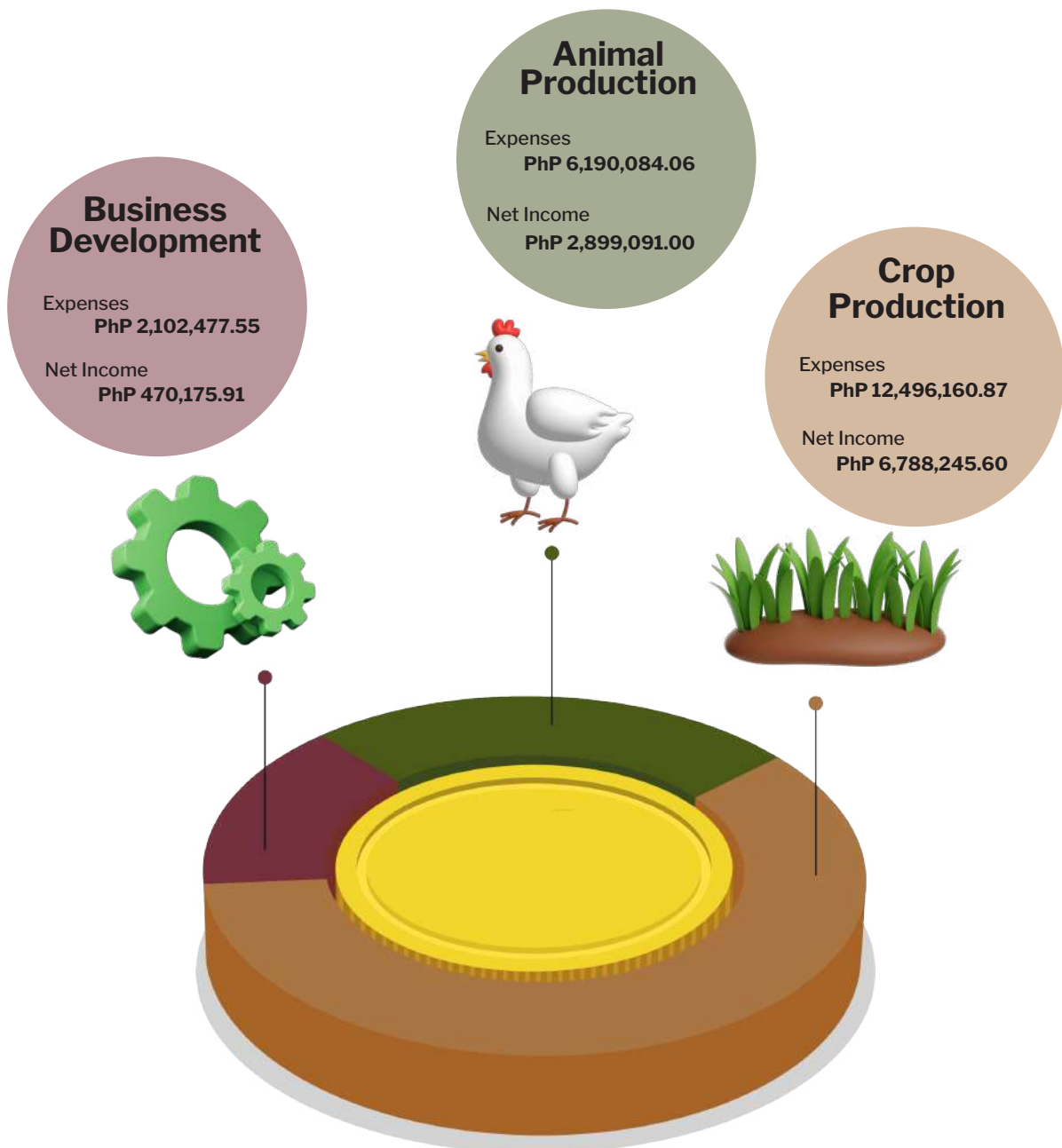
The COVID-19 pandemic has created challenges and opportunities with regard to the implementation of the University's income generating projects (IGPs). Focused on its mandate, the University and Business Affairs Program proactively responded to the crisis by implementing functional strategies in production, financial and human resource management in order to sustain the effective and efficient production

operations thereby enhancing the most profitable ventures and set the stage for more viable IGPs.

As a result of these strategies, the 2022 net income from the crop production, animal production and business development divisions increased to P10,157,512.51 (ROE: 49%), 82.48% higher compared with the income level amounting to P5,566,350.81 (ROE: 26%) in 2021.



## Production Year 2021 – 2022



Total Expenses **PhP20,788,722.48**

Total Net Income **PhP10,157,512.51**

ROE **49%**



## Vera Bella Enterprises Limited Co.

An enterprise which started as a research program to develop innovative tilapia recipes, the Daerrys Tilapia Ice Cream became one of the in-demand desserts in the market. After the successful launching and commercialization, Dr. Dana G. Vera Cruz and Dr. Tereso A. Abella decided to establish a spin-off company named Vera Bella Enterprises Limited Co. with the assistance of CLSU-AFTBI.

As one of the successful AFTBI spin-off company, Vera Bella Enterprises Limited Co. aims to innovate

farmers' harvests into nutritious and world-class products. Vera Bella collaborated with tilapia fisher folks and carabao raisers to be part of the Daerrys supply chain.

Later on, Vera Bella gave birth to a new brand and product - the Vera Bella Breads and opened their physical store at the Science City of Muñoz.



## Blitzkrieg Animal Diagnostic Center

Dr. Clarissa Yvonne J. Domingo, a faculty researcher from the College of Veterinary Science and Medicine became an award-winning researcher after developing the Andali Test Kit, which can detect highly contagious diseases in the livestock and poultry industry. After the development of the Andali Test Kit, Dr. Domingo continued her research and founded the BLITZKRIEG Animal Diagnostic Center which pioneered in the commercialization of Philippine-made rapid test kits with the assistance of CLSU-AFTBI.

There are 4 test kits for swine viral infections (PED, CSF, PRRS, ASF), 1 for poultry viral infection (NDV), and 1 for ruminant parasite prepatent detection (*Fasciola cathepsin B*). BLITZKRIEG also provides training to stakeholders who intend to utilize the test kits themselves and testing services to assist in the early detection of several viruses infecting livestock and poultry.

# Technologies/ Products Commercialized & Utilized

## **TQI Foods Lucky Leaf**

Dr. Joann D. Dar, a food technologist, sustains her advocacy in organic farming by providing seminars that capacitate the Filipino farmers to become scientific and adept to the utilization of new technologies thereby making their enterprises more profitable by making their production systems more efficient, safer, and environment friendly.

Dr. Dar unceasingly thinks of innovative ways to help the farmers by reducing their harvest losses. With the help of CLSU AFTBI's equipment and machines, their losses are lessened by implementing appropriate cultural operations, improved handling and packaging of produce to extend the availability and longevity of fruits and vegetables by protecting them from microbial and environmental damages.

Dr. Dar utilizes technologies on dehydration, refrigeration and freezing of onion and other agricultural by-products through controlled atmosphere.

## Vana's Kitchen

Operating in San Jose City, Nueva Ecija, Vana's Kitchen specializes in processing rabbit meat and chicken into canned food products. Mr. Amiel V. Robles, a graduate of CLSU BS Agribusiness program, explored the potential of rabbit meat in the market through the assistance of CLSU AFTBI.

Canning technologies are used by Mr. Robles to prolong the shelf life of his products without losing its quality and safety for consumption.



## Valuefactorie Social Enterprise Solutions

Dr. Hazel B. Alfon, a registered chemist from Science City of Muñoz, Nueva Ecija, produces essential oils from organic sources and uses the same in her formulation of household and wellness products. She runs her business with her son, Alex Alfon who also acts as a resource person during the training in the production of liquid detergent, fabric conditioner, dishwashing liquid, etc. as potential sources of livelihood of the locals. Dr. Alfon employs technologies in oil extraction such as mechanical pressing and extracting with volatile solvents.





## Mondrea Food Products

Mr. Raymond Anthony D. Chua was mentored by CLSU AFTBI in processing quail eggs and meat he produces in his farm in Bacolor, Pampanga. He was trained in the utilization of thermal processing of quail eggs in acidified brine to produce pickled quail eggs. Canning technologies were also utilized in the processing of quail meat into gourmet dishes.



# Royalty Fee from Product Commercialization



## CLSU Receives P29M Royalty for Mestiso 78

The CLSU through the Philippine Sino-Center for Agricultural Technology (PhilSCAT) after its dedicated service in developing high-quality hybrid rice is now reaping the fruits of their labor after the Yuan Longping High-Tech Agriculture Co., Ltd. handed over about 29 million pesos worth of royalty from the commercialization of NSIC Rc 465H also known as Mestiso 78.

Prior to the acquisition of the Intellectual Property Rights of NSIC Rc 465H also known as Mestiso 78, PhilSCAT facilitated the tests for adaptability, grain quality evaluation, techno demonstrations, promotions in various parts of the country. The royalty is a one-time payment of 1.65% of the total sales of Mestiso 78 for the period of five years (2018-2022).



# Awards & Recognitions





# Institutional Awards



The Commission on Higher Education (CHED) recognized CLSU for being one of the nine State Universities and Colleges (SUCs) with the **highest number of Centers of Excellence (COE)** in the country, and for obtaining the **4th rank among SUCs with most outstanding number of issued Certificate of Program Compliance (COPC)**. CHED also accorded **Certificates of Commendation and Plaque of Recognition** for the University's outstanding performance in the globally-recognized rankings and ratings.

The Department of Science and Technology (DOST) conferred CLSU with the Science for the People - Outstanding S&T Partner in the Academe Award.



The Nueva Ecija (NE) Provincial Government through Governor Oye Umali bestowed CLSU a plaque of commendation for its momentous achievement of being included in the list of top Asian universities by the QS Asia University Rankings 2022.

# Faculty Awards & Recognition

**Faculty Members who Received Professional Recognitions from  
Award-giving Bodies/Professional Organizations**



**Dr. Renato G. Reyes**

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**Regional Professorial Chair Grantee**  
Southeast Asian Regional Center for Graduate Study  
and Research in Agriculture



**Dr. Clarissa Yvonne J. Domingo**

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**Start-up of the Year** for her Andali Test Kits - DOST S&T Award

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**Shortlisted** the "Nanogold ASF Test Kits Bringing Life to an  
Ailing Swine Industry" - 2022 THE Awards Asia



**Dr. Rich Milton R. Dulay**

**2022 Outstanding Young Scientist**

National Academy of Science and Technology (NAST)

**First Place in the Technical Oral Presentation**

(Biological and Health Sciences) given by DOST SEI-ASTHRDP  
NSC during 10th ASTHRDP Graduate Scholars Conference



**Engr. Christopher S. Pascual**

**First Place**

DOST's Banghay Award during the 2022 National Invention  
Contest and Exhibits (NICE)



**Dr. Juvy J. Monserate**

**2022 Outstanding Chemical Engineer**

Research and Development, Philippine Institute of Chemical Engineers



**Dr. Edwin C. Atabay**

**Most Outstanding Veterinarian** in Government Service  
PCC Research Trends and Innovation

## Other Faculty Researchers who Received Various Awards in International and National R&D Conferences

### Katherine D. Bautista

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#### **Best Proposal Award**

Department of Science and Technology (DOST) - Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)

### Dr. Dana G. Vera Cruz

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#### **Best Paper Award** (Development Category)

CLAARRDEC's 33rd Regional Symposium

### Dr. Garry A. Benico

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#### **2nd Best Poster Award**

4th International Research and Development Conference

### Ms. Lea S. Caguiat

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#### **Best Proposal Award**

International Summer Course Program on Agriculture and Ecosystem Resilience to Environmental Disaster toward Regional Sustainability at Institut Pertanian Bogor (IPB) University, Indonesia

### Mr. Jairus Jesse M. Tubal

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#### **Second-Best Oral Presenter Award**

Respectively, in the International Summer Course Program on Agriculture and Ecosystem Resilience to Environmental Disaster toward Regional Sustainability at Institut Pertanian Bogor (IPB) University, Indonesia

### Mr. Paul John M. Pangilinan

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#### **1st Place AI Robotics and Data Science Track**

Asia-Pacific Innovation Challenge 2022

### Dr. Cheryl L. Eusala

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#### **Best Presentation and Best Paper Awards**

Asia Future Conference

## Group Category

### Top 12 AUAP Research Fund Project

Juvy J. Monserate, G. Panomsuwan

Association of Universities of Asia and the Pacific

### Best Paper Presentation

*Development and Validation of an Automated Electronic Controller (AELC) for Electric Generator Assembly*

Roldan T. Quito, Victorino T. Taylan, Marvin M. Cinense, and Marlon T. Delos Santos

*5th International Conference on Recent Trends in Multi-Disciplinary Research*

### 2nd Best Paper Award

Jocelyn P. Doronio, Joel P. Salazar, Juvy J. Monserate, Benyl John A. Arevalo, Paul Jhon G. Eugenio, and Marilou M. Sarong

2nd Regional Conference on Food Science and Technology  
"Harnessing Innovations in Food Science and Technology"

### Best Poster Award Research Category

*A Rice Farmers: Empowering Men and Women of Kankana-Ey Community Through Special Purpose Rice Production and Processing*

Darwin G. Dela Cruz, Paulina J. Alvaran, Leah SM Dela Cruz, Jomar S. Garabiles, Nestor D. Pagaduan, and Dan Chalie Joy C. Pangilinan

1st International and 4th National Gender and Development Research Congress

### Best Oral Presentation Award

*Increasing Productivity and Income from Crop Production in Marginalized Farms in Zambales, Philippines through Promotion and Adoption of Appropriate Technologies*

Maria Excelsis M. Orden, Nestor D. Pagaduan, Angelo C. Fermil, Nicasio C. Salvador, Diosdado C. Garcia, Katherine DA. Bautista, and Justine M. Go

Innovation for Resilient Agriculture (IRA) 2022 International Conference

### 2nd Best Paper

*2nd Regional Food Science and Technology*

Jocelyn P. Doronio, Joel R. Salazar, Benyl John A. Arevalo, Paul Jhon G. Eugenio, Marilou M. Sarong, and Juvy J. Monserate

Bicol University

# Student Awards & Recognition

## International



### CLSU Maestro Singers

**Category Winner** in the Taipei International Choral Festival and South Korea  
**Gold Diploma** at the Michaelangelo International Music Festival in Florence, Italy  
**Best Choral Group** during the 35th Aliw Awards

### 2nd Place in the Best Presentation

Manuel Paolo De Leon and Ned Ivan Cruz

First AUAP Youth Development Program, Bangkok and Pattaya, Chonburi, Thailand

## Interschool Competition

|                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Princess Fadrogane</b> – Champion, Paramihan ng Alam                                                                                                             |
| <b>Alden Asuncion</b> – 1st Runner Up, Paramihan ng Alam                                                                                                            |
| <b>Rubie Tumambo</b> – 1st Place, LTSP Central Luzon Earth Day 2022 Photo Contest                                                                                   |
| <b>Rosalinda De Vera</b> – 2nd Place, LTSP Central Luzon Earth Day 2022 Photo Contest                                                                               |
| <b>Gwyneth Josh Beltran</b> – 3rd Place, LTSP Central Luzon Earth Day 2022 Photo Contest                                                                            |
| <b>Blessie Louise Monserate</b> – 1st Runner Up, MSE (Materials Science and Engineering) Summit 2022                                                                |
| <b>Kay Anne Bacolod, Juwan Catbagan, and Hayley Alison Velasco</b> – Top 8 finalist, SIHAY National Biology Olympiad                                                |
| <b>Laurence Ramos and Carl Danielle Cabuhat</b> – 3rd Place, 20th Regional Higher Schools Press Conference                                                          |
| <b>Joshua Mendoza and Ferdinne Cucio</b> – 4th Place, 20th Regional Higher Schools Press Conference                                                                 |
| <b>Mr. Peter Ryuken Hermosura</b> - 8th Place and Champion, 26th Philippine Statistics Quiz - National Level                                                        |
| <b>Mr. Alen Iverson S. Lucio</b> – Finalist, 26th Philippine Statistics Quiz - National Level                                                                       |
| <b>Donna Mae Mana</b> -2nd Place Most Outstanding Newspaper (CLSU Collegian), 3rd Luzon wide University of the Assumption - Outstanding Campus Press Awards         |
| <b>France Joseph Pascual</b> - 2nd Place Most Outstanding Newspaper (CLSU Collegian), 3rd Luzon wide University of the Assumption - Outstanding Campus Press Awards |
| <b>Ron Vincent Alcon</b> - 2nd Place Most Outstanding Newspaper (CLSU Collegian), 3rd Luzon wide University of the Assumption - Outstanding Campus Press Awards     |
| <b>Roland Michael Labe</b> - 4th Place Vocal Duet, CAASUCIII Competition                                                                                            |
| <b>Miriam Avestruz</b> - 4th Place Vocal Duet, CAASUCIII Competition                                                                                                |
| <b>Vianca Marie Cabigting</b> - 4th Place Painting, CAASUCIII Competition                                                                                           |
| <b>Eduardo Cajucom</b> – Mr. CAASUC participant, CAASUCIII Competition                                                                                              |
| <b>Gian Carlo Magat</b> - 3rd Place HipHop, CAASUCIII Competition                                                                                                   |
| <b>James Philip Abargom</b> - 3rd Place HipHop, CAASUCIII Competition                                                                                               |

## Provincial and National

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**Raymon Maubog and Maverick Uy** - 1st place, PhilCan EDUCON Magic7+ Philippine Culinary Cup

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**Ryan Jacob Bautista and Mharion Bote** - Awardee, DA - Young Farmers Challenge Fund (YFCF), the duo's proposal Provincial Level Awardee RFO III

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**Angelika Pugat** - Awardee, DA - Young Farmers Challenge Fund (YFCF), Provincial Level Awardee RFO III

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**Ronald Andrei Bunag** – Awardee, Young Farmers Challenge Provincial Level Awardee RFO III, Provincial Level Awardee RFO III

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**Shara Jeremy Pagtama** – Awardee, Young Farmers Challenge Provincial Level Awardee RFO I

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**Dann Jomari Cara**, 2nd Place, 71st PSABE Annual National Convention second place.

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**Ralph Laurence Castro and Noaim Piti-Ilan** – Qualifier, ASEAN Data Science Explorers (DSE) competition

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# The 2022 Board of Regents

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**PROF. JANET O. SATURNO**

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Director, Animal Production Division

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