

2023 Grains

Central Luzon State University
● ANNUAL REPORT



About the Cover

The CLSU Annual Report 2023 cover is anchored on the theme “The Dawn of a New Era in Agricultural Education and Innovation.” It is a visual narrative that captures the transformative journey of agriculture and allied fields. It celebrates the fusion of tradition and technology, the evolution of education, and the relentless pursuit of sustainability and resilience. As we turn the pages of this publication, we dig deeper into the stories of innovations and educational advancements that are shaping the future of the University, offering a hopeful and inspiring vision for the generations to come.

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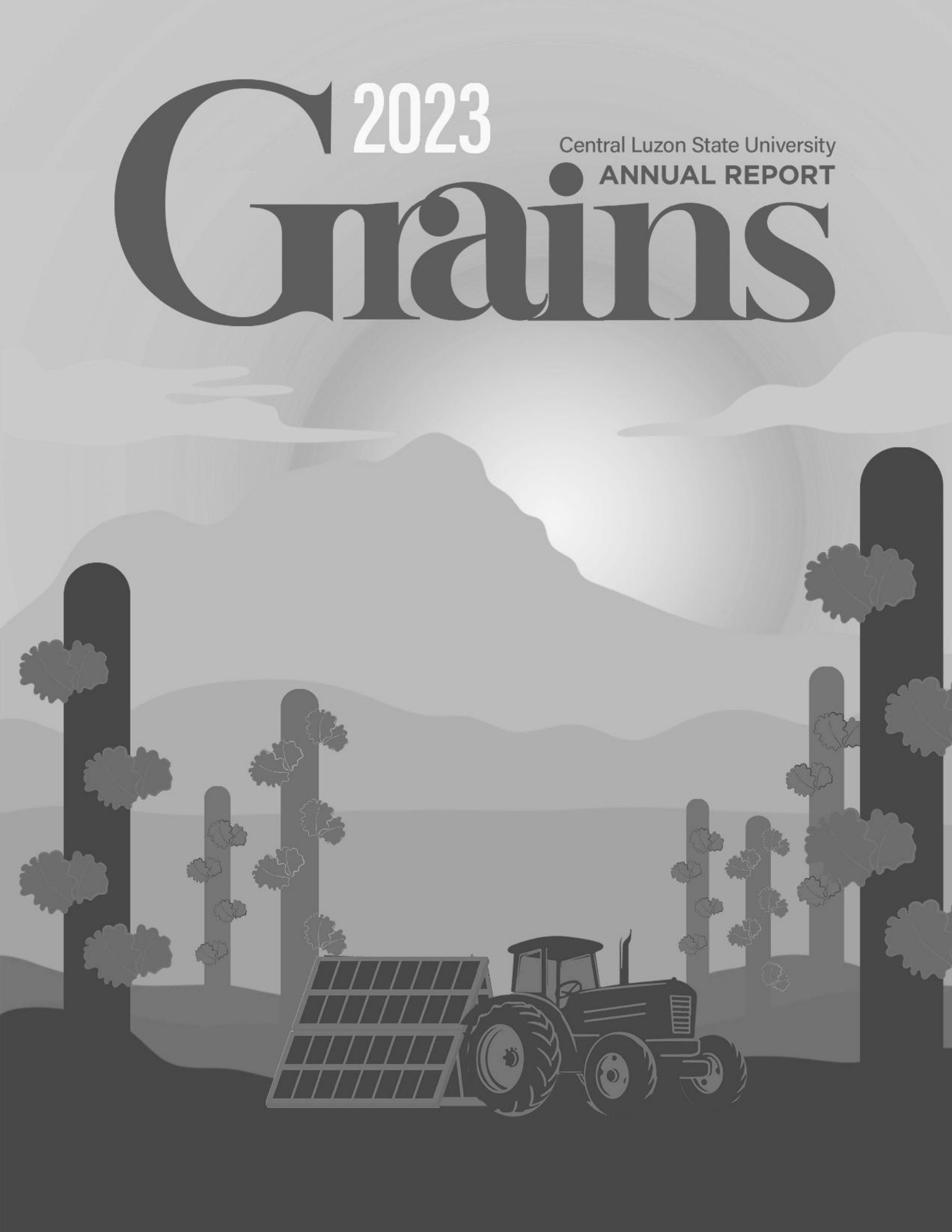
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C 2023

Central Luzon State University
● ANNUAL REPORT

Grains



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.



Contents

	Leadership in Agricultural Science & Technology	2
	Excellence in Learning	10
	Transformative and Enabling Environment	36
	Breakthrough Knowledge and Innovation	58
	Maximum Impact through Proactive Engagement	72
	Business Affairs & Technology Commercialization	88
	Awards and Recognitions	98

Messages

CLSU has a strong foundation in research and innovation, it leaps forward in terms of knowledge generation in Agriculture and allied fields. We, as a University, were able to keep up with the changes in society, nature and technology and we have used these to create an impact for the community.


Indeed, CLSU is gearing towards the attaining of its vision of becoming a world-class national research university, and we will continue this path of supporting and enhancing the strength of our faculty members and staff in their specialized fields. I am delighted that every member of this community aims to contribute in sustaining our excellent standing in the academe, administration, business, and research.

In this report, it is truly evident that excellence is already embedded in our culture. Our generated knowledge created impact through projects that have been shared for nation-building.

I enjoin the CLSU community to continuously create more influence, and position ourselves to be at par with the international higher education institutions.

CLSU embraces change.

CLSU leads change.


Evaristo A. Abella
University President
2023 - Present





I am proud to say that CLSU's achievements for year 2023 stayed true and even went beyond with our commitment to generate knowledge and technologies in agriculture and allied fields, ultimately for societal development.

This is evident in the various accomplishments of our faculty researchers across their respective offices, particularly in successful implementation of projects, the generation of substantial funding, and the publication of numerous R&D articles.


As I conclude my presidency for this year, I am proud to say that even on the onset of the pandemic, the easing to the new normal, and budget cuts, the University was able to grow, achieve, and go beyond our expectations. We have led the universities in the region and we have become at the forefront of higher education institutions because we were brave enough to take risks and test ourselves with new challenges, international rankings, and new appropriations to provide more opportunities.

From the bottom of my heart, I sincerely thank each & everyone of you for making my four years as president both productive and transformative, leaving a lasting legacy to future leadership and the next generation of civil servants.

I salute all members of this community whose dedication never wavered.

We are CLSU, we are at the forefront, we envisioned and we transformed, this is who we are.

Let us continue to SIEVE for excellence.

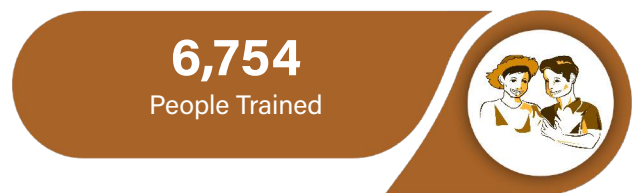
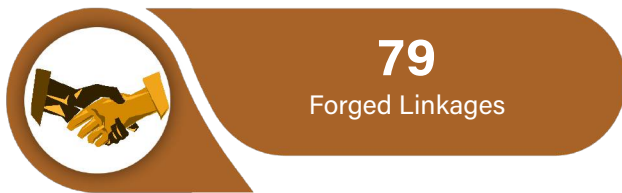
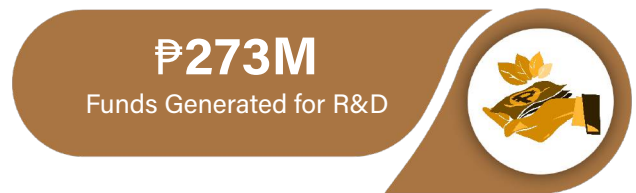
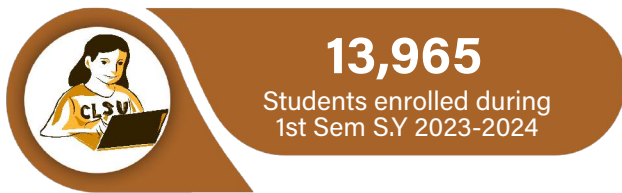

Edgar A. Orden
University President
2019 - 2023

★
★
★
P★MANA
PAILAW 2023



CLSU

at a Glance







Leadership in
Agricultural
Science &
Technology

THE Impact Rankings

The University was ranked within the **801-1000** bracket in the Times Higher Education Impact Rankings 2023

QS Stars Ratings

Maintaining its previous top-star ratings for Teaching, Employability, and Inclusiveness, CLSU has accorded with a new 5-star rating for Social Responsibility by Quacquarelli Symonds (QS) Star Rating System

World Universities with Real Impact

Ranked **86th** on the Global Top 100 Innovative Universities among 300 universities worldwide



CL

in the Glo

Webometrics Ranking

Clinched the **12th** spot among the 100 Higher Education Institutions in the Philippines

EduRank

Ranked **18th** among Philippine universities for its commitment to research and development, emphasizing quality and excellence

AD Scientific Index

Alper-Dodger (AD) Scientific Index registered the CLSU as ranked **8th** under Public Universities in the Philippine category and **13th** on the overall ranking

Webometrics

**RANKING WEB
OF UNIVERSITIES**

EduRank
— — — — —

AD Scientific Index
Rankings for Scientist
University, Subject,
Country, Region, World

SU

bal Arena



Amplifying R4D Initiatives through RiDe Festival

The second edition of the Research Innovation and Development (RiDe) Festival 2023, with the theme "R4D: Key to a Sustainable Society" conducted from October 9-11, 2023, amplified the impact of the initiatives of CLSU to the community.

Hon. Amenah F. Pangandaman, Secretary of the Department of Budget and Management (DBM), graced the 3-day festival as the guest of honor and speaker which featured research for development (R4D) initiatives, technologies, and products

developed by the different R&D centers, and colleges. As a token of appreciation, Dr. Edgar A. Orden, CLSU President handed an authentic bag from the Philippine Carabao Center at CLSU called Cara Cuero made from pure carabao leather hide customized by their partner manufacturer in Bulacan.

On the other hand, Mr. Raphael Henri B. Mundo representative of Atty. Ignacio S. Santillana, Deputy Administrator from the Sugar Regulatory Administration, served as the speaker during the



plenary sessions, followed by the presentation of completed and ongoing research papers as well as the poster presentation.

Other events include the KAMALIG Fiesta for farmer-partners featuring experiential learning opportunities, testimonials from farmer champions, lectures about 'Kamlong' grafting, and other activities in the different sites of the S&T-based farm. Also, students, faculty, and staff from the different colleges and R&D centers showcased their culinary skills during the KAMALIG Fiesta Cooking competition featuring ingredients that can be found in KAMALIG.

Meanwhile, to expand the operations and increase the broiler production of the university, CLSU executives led the groundbreaking ceremony of the new broiler farm with a climate control system with 36,000 bird capacity worth P21 Million which will be built through the administration.

On the other hand, the National Irrigation Administration – Upper Pampanga River Integrated Irrigation Systems (NIA-UPRIIS) Division 1 held a turn-over ceremony for five solar-powered pump irrigation facilities installed within the premises of CLSU. Also, with an aim to commercialize CLSU-generated technologies, a total of 13 research products were pitched to possible investors from different private and public agencies, 8 of which are food products and 5 are non-food products including the test kits for crops and animal diseases.

Lastly, two groups of student-inventors presented their innovative food products during the Inventors' Day which aims to provide an enabling environment for students to demonstrate their creativity and critical thinking skills. Furthermore, the Seminar for Young Researchers where faculty-researchers and the research staff listened to the lectures of Research for Development (R4D) experts and practitioners.



CHSI Inaugurates Food Processing R&D Facility

The College of Home Science and Industry (CHSI), through its Department of Food Science and Technology (DFST) inaugurated its Food Processing R&D Facility on June 30, 2023, funded through the Department of Agriculture – Agricultural Competitiveness Enhancement Fund (DA-ACEF).

The newly upgraded building houses different food processing equipment like a smokehouse, freeze

dryer, automatic meat slicer machine, and cabinet dryer among others. The same facility will also strengthen the mode of instruction, research, and extension endeavors of CHSI and as well as the assistance of the University to micro, small & medium enterprises (MSMEs), cooperatives, and other stakeholders in developing food products for their livelihood opportunities.

CCLS Opens Agricultural Museum Inside Reimers Hall

In celebration of the National Arts Month, the Center for Central Luzon Studies (CCLS) officially opened the Agricultural Museum situated inside the restored Reimers Hall on February 22, 2023. It showcases six small sections of ethnographic artifact collections focusing on the festival and rural life that has significant development in agriculture and aquaculture in Philippine History. The Museum is open from 9:00 am to 4:00 pm during weekdays.







Excellence in Learning

Graduates

A total of **3,099 'golden grains'** received their diplomas during the 32nd Mid-year and 71st Annual Commencement Exercises. Among the graduates, 1,198 were awarded with academic honors and special awards.



32nd Midyear

368
Graduates

71st Annual

2,731
Graduates



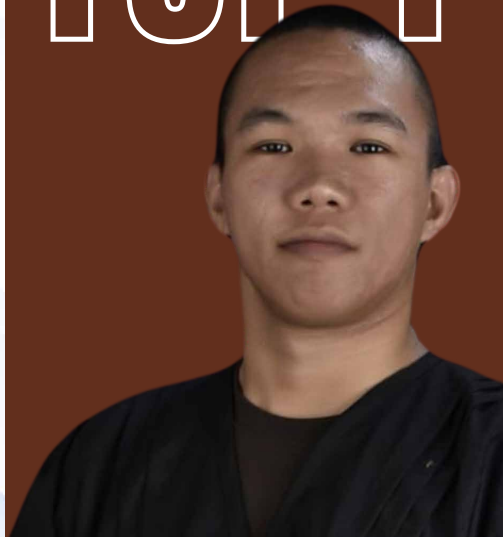
Board Topnotchers



Mr. Ronn Adam V. Pontoy

*Agriculturist Licensure
Examination*

TOP 1



Engr. Allan B. Tamayo

*Master Plumber Licensure
Examination*

TOP 2



Engr. John Henry L. Tenorio

*Agricultural and Biosystems
Engineers Licensure Examination*

TOP 4



Mr. Justine M. Corpuz

*Psychometrician Licensure
Examination*

TOP 7



Ms. Theresa G. Dangkulos

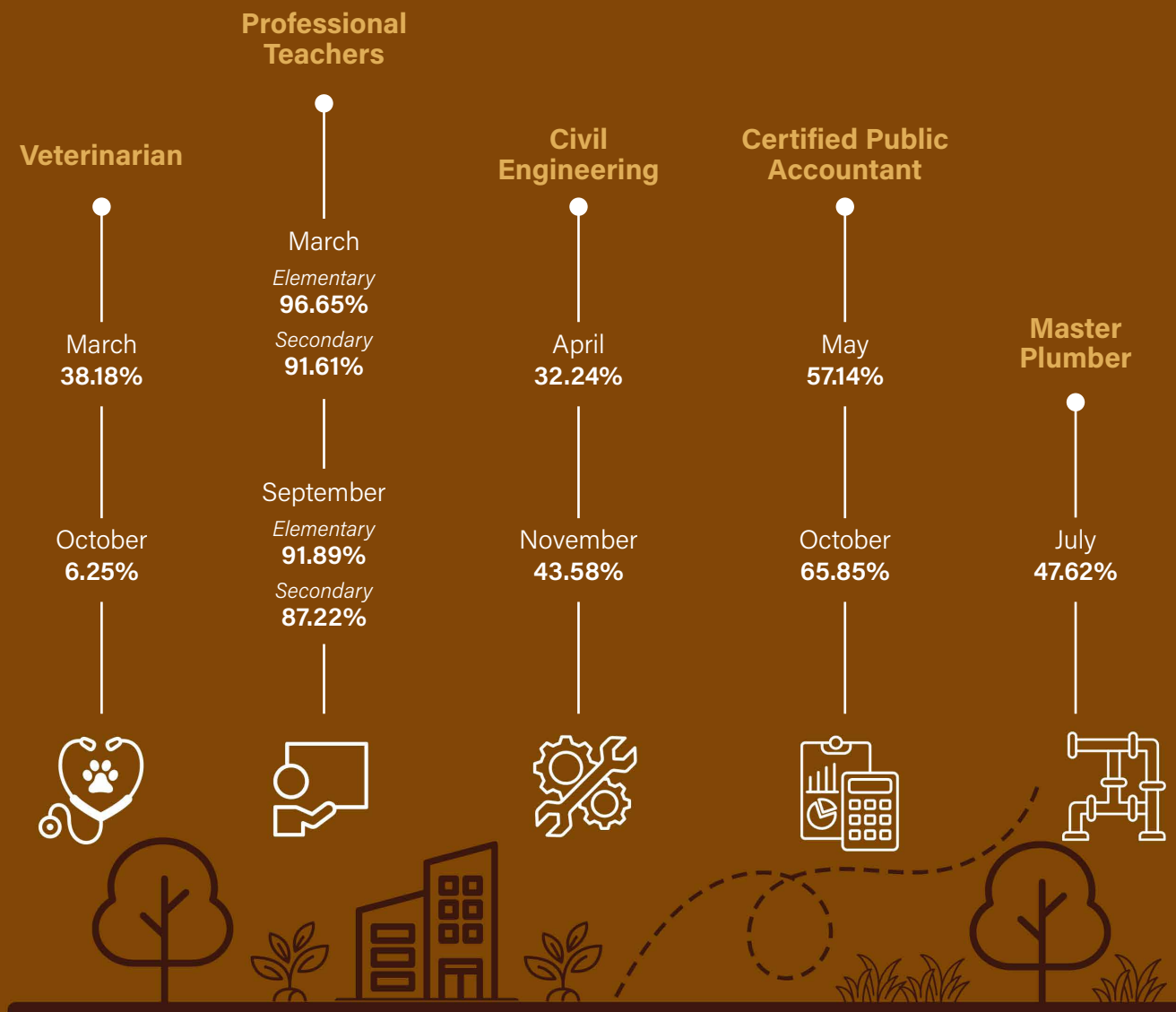
*Board Licensure Examination
for Professional Teachers
(Secondary)*

TOP 10



Licensure Examination

The CLSU "Golden Grains" demonstrated a commendable performance during licensure examination exemplified by the institutional passing rate being consistently higher than the national passing rate.





**Guidance
Counselor**

August
55.56%



Psychometrician

August
74.83%



Fisheries

October
50.00%



Agriculturist

November
69.16%



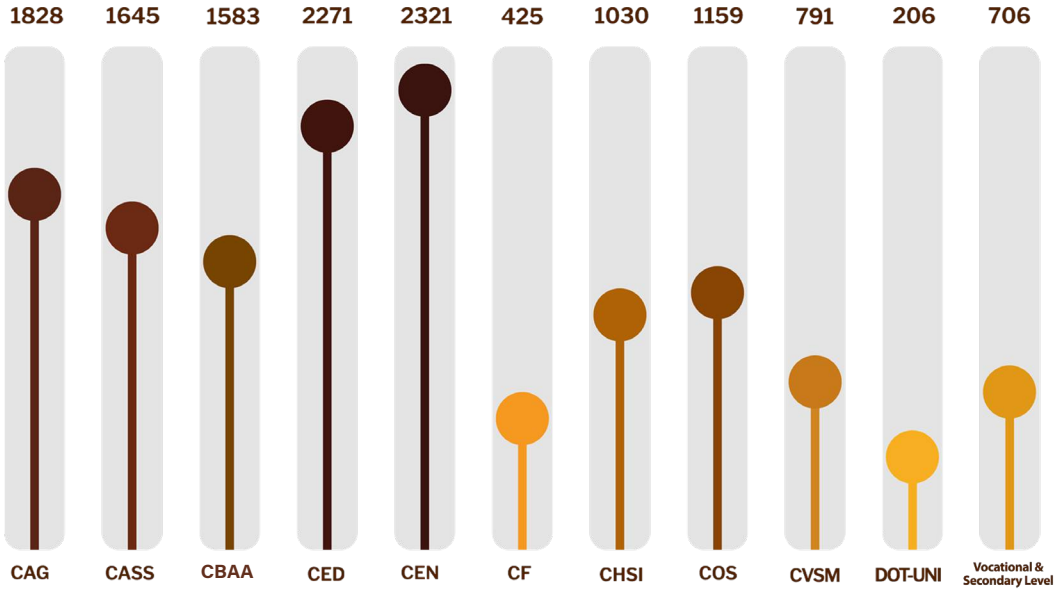
**Chemist &
Chemical
Technician**

December
Chemist
76.19%
Chemical Technician
77.36%



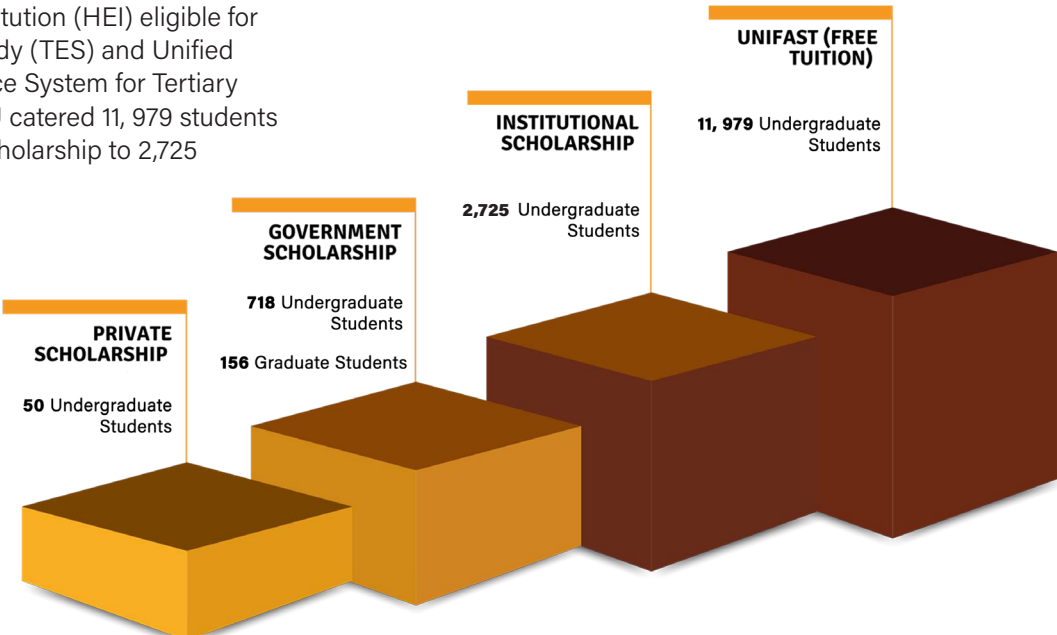
Enrollment

The enrolled students during the first semester of the school year 2023-2024 reached a total of 13,965 including those enrolled in vocational and secondary levels.



Scholars

As an Higher Education Institution (HEI) eligible for the Tertiary Education Subsidy (TES) and Unified Students Financial Assistance System for Tertiary Education (UniFAST), CLSU catered 11, 979 students and provided institutional scholarship to 2,725 undergraduate students.

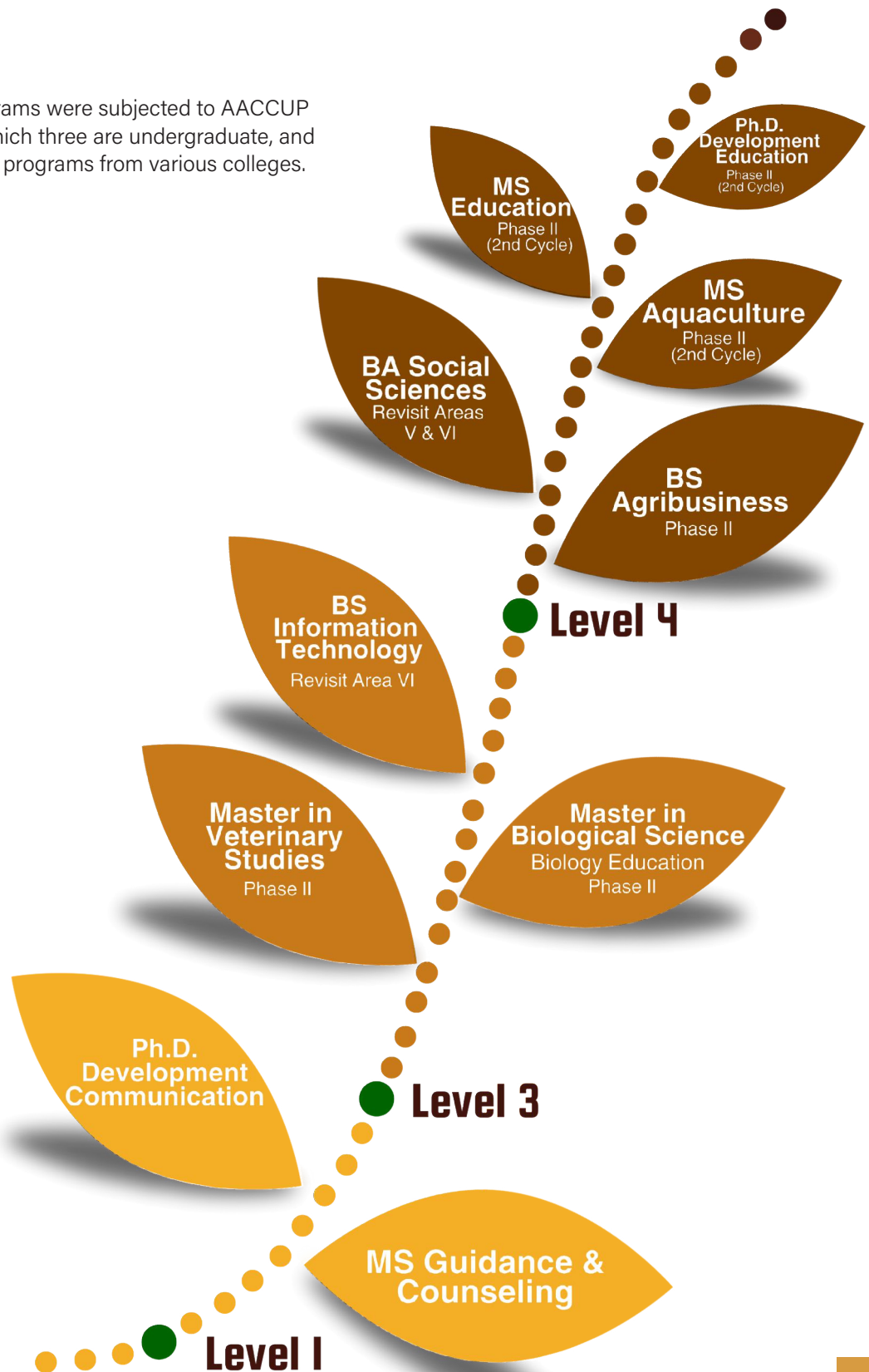


Accreditation

Ten curricular programs were subjected to AACUP Accreditation, of which three are undergraduate, and seven are graduate programs from various colleges.

Legends:

- Level 1
- Level 3
- Level 4



Internationalization Events

CLSU Professor Holds SEARCA Professorial Lecture on Wild Edible Mushrooms

Dr. Renato G. Reyes, Vice President for Academic Affairs, and recipient of the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) Regional Professional Chair, delivered a lecture on the recent advances of the Domestication and Mykopharming of Wild Edible Mushrooms in the Philippines held on March 6, 2023.

Dr. Reyes shared the story of their expedition and discovery of the various mushroom species found in the Philippines, including the kabuteng saging or “Volvariella volvacea”, Ligninolytic mushrooms, kabuteng dimonyo or “Coprinus comatus, and Chinese mushrooms, among others.

Aside from the on-site participants composed mainly of faculty and staff, the lecture was also attended by students, government employees, private-sector employers, farmers, retirees, and mushroom growers online through Zoom and Facebook live. It also drew local and international participants from Cambodia, Canada, Egypt, India, Malaysia, Nepal, Thailand, Timor-Leste, and Indonesia.



24th MSP Annual Scientific Meeting and Blended Symposium

The Department of Biological Sciences and Center for Tropical Mushroom Research and Development (CTMRD) under the College of Science (COS) successfully hosted the 24th Annual Scientific Meeting and 1st Blended Symposium of the Mycological Society of the Philippines (MSP) with the theme “Emerging Trends in Mycology for Gen a”, last June 23, 2023.

Keynote and plenary speakers from Japan, Ukraine and the Philippines shared their expertise on mycological research during the blended activity which accommodated more than 100 on-site and online participants. Prof. Atsushi Ishihara, faculty of Agriculture in the United Graduate School of Agricultural Sciences, Tottori University, Japan, served as the keynote speaker while his advisee Mr. Tomoyo Tanaka, a graduate student in the Graduate School of Sustainability Science, Tottori University, delivered a lecture during the event.



UC SEARCA International Summer Short-term Program

The University Consortium - Southeast Asian Regional Center for Agriculture (UC-SEARCA), in partnership with Central Luzon State University organized the first face-to-face session of the International Summer Short-term Program (ISSP) held from July 24-August 1, 2023.

The ISSP featured three tracks which provided intensive training in the sustainability areas of mushroom biology, freshwater aquaculture, and goat production. A total of 23 international participants from Maejo University (Thailand), National Taiwan University (Taiwan), Tokyo University of Agriculture (Japan), Universitas Gadjah Mada, Institut Pertanian Bogor (Indonesia), Universiti Putra Malaysia, Xiamen University (Malaysia), and 8 local participants from University of the Philippines Los Baños, Visayas State University, Central Bicol State University of Agriculture, and Central Luzon State University attended the different sessions where CLSU faculty-researchers served as resource persons.



Student International Mobility

Outbound Students

With CLSU's strong presence in various international rankings, it earned a reputation to its partner institutions and secured opportunities for 72 students who participated in outbound programs such as exchange student programs, trainings, internships, and short-term courses.

Among these programs are the SEA Teacher Program in Thailand and Indonesia, ASEAN in Today's World 2023 in Thailand, and the 1st Asia Pacific Youth Folklore Festival 2023 in Malaysia, among others. The students were from different colleges wherein 9 were from the College of Agriculture, 8 from the College of Arts and Social Science, 4 from the College of Business Administration and Accountancy, 23 from the College of Education, 5 from the College of Engineering, 5 from the College of Fisheries, 4 from the College of Home Science and Industry and 6 from the College of Science.

72
Outbound
Students





22

Inbound Students

Inbound Students

On the other hand, with the assistance of the International Affairs Office, the University catered 22 inbound students from esteemed partner universities such as Walailak University (Thailand), Kasetsart University (Thailand), Khon Kaen University (Thailand), Universitas Pendidikan (Indonesia), and University of Tsukuba (Japan). These programs mainly include internships and SEA Teacher programs, fostering a rich cultural exchange and academic collaboration.

Among the 22 students, 10 were accommodated by the College of Fisheries for internship, while the College of Education accommodated 10 students for SEA Teachers program and 2 were hosted by the College of Arts and Social Sciences for Students Exchange Program.

Faculty Venture on International Arena

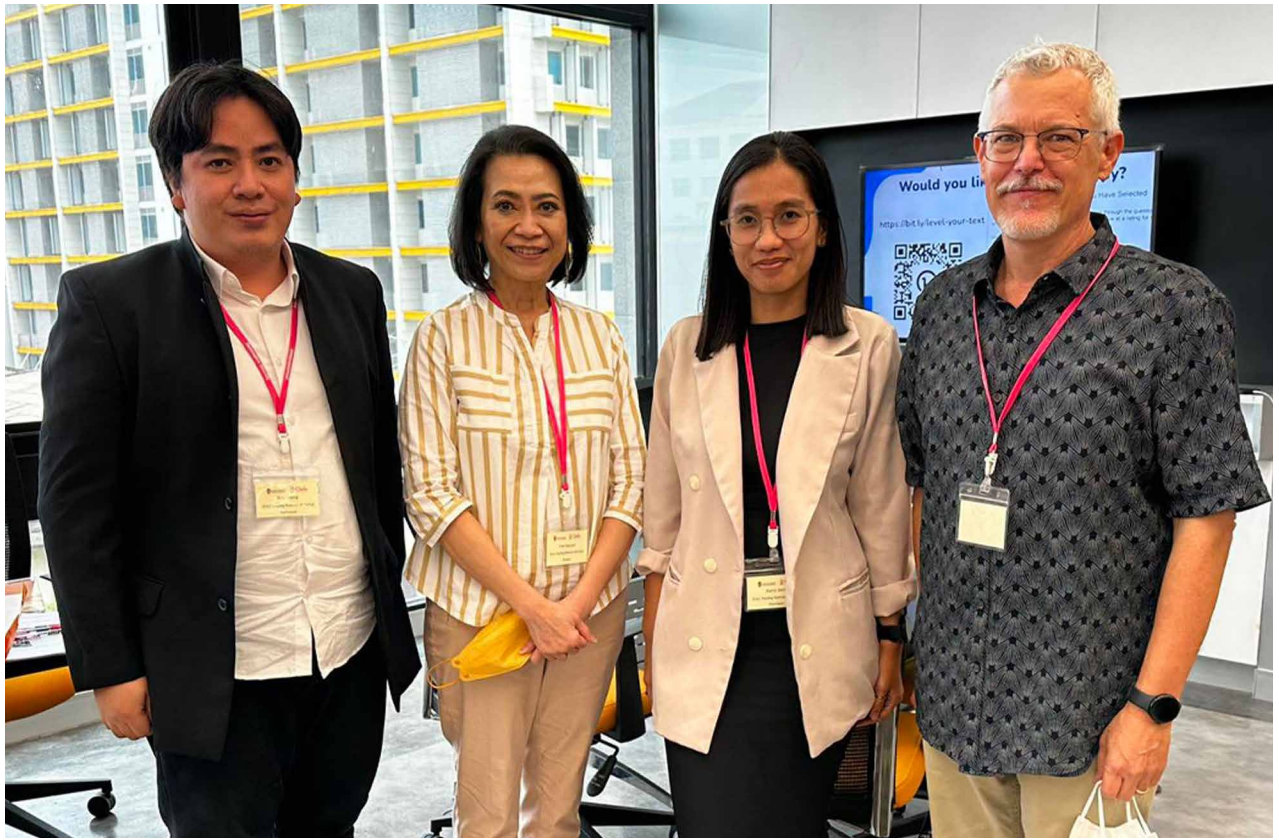
In 2023, 65 faculty and staff actively participated in international conferences, forums, and training sessions, demonstrating their unwavering dedication to academic exchange and professional development fostering collaboration across diverse fields.

Among these were the faculty members from the Department of Social Sciences, including Melanie Tolentino, Jose Epimaco Arcega, and Floper Manuel, who shared their insights at the International Academic Forum held in Singapore. Similarly, Dr. Ronalie Rafael from the Department of Veterinary Clinical Sciences and Dr. Virginia Venturina from the Department of Pathobiology offered their expertise at the Global Alliance For Rapid Diagnostics Forum' in Vietnam.

On the other hand, Ms. Karryl Angelie Abon-Amis and Mr. Prof. Ken Calang from the Department of English and Humanities represented the Philippines in the Southeast Asian Language Council (SEALC) Reading Materials Development Workshop Series Agenda held at Chulalongkorn University, Bangkok, Thailand.

Dr. Noraine P. Medina, Dean of the College of Veterinary Science and Medicine, also solidified CLSU's international presence by getting elected as Vice President of the Asian Association of Veterinary Schools in September.

Meanwhile, Dr. Hazel Monica M. Peralta, Dr. Lorenz J. Fajardo, and Ms. Cherry Ann G. Kindipan participated in the international conference in Malaysia and visited two universities in the said country namely Universiti Tun Hussein Onn Malaysia (UTHM) and Universiti Putra Malaysia (UPM) to discuss the specifics of collaborations to be included in the memorandum of understanding (MOU) with Central Luzon State University.



Fulbright-Hays Program Sends 9 Foreign Students

Eight undergraduate students from Northern Illinois University (NIU) and one College of DuPage, Illinois, USA participated in the project “The Philippines’ Coffee and Carabao Culture and Language: Tagalog Language Immersion in Northern and Southern Rural Philippines” hosted by the College of Arts and Social Sciences (CASS) with funding from the Fulbright-Hays program of the United States Department of Education.

CLSU facilitated the northern Philippine leg of the program from July 1 to 26, 2023, after they completed their activities organized by Cavite State University from June 6 to 30, 2023. Along with the students were 2 NIU professors and one professor from Sauk Valley Community College as project evaluators.

Furthermore, cultural activities like discussions on indigenous people, rice planting, learning Filipino language and culture, cooking local dishes, and radio broadcasting, were included as part of the cultural program.



International Visitors



UTSS Faculty Visit CLSU Laboratory High Schools

Mr. Yoshikazu Tatemoto, Director of the Committee for International Education and Program Development, and Mr. Kenichi Yoshida, Coordinator of the International Baccalaureate Diploma Program, from the University of Tsukuba Senior High School at Sakado (UTSS), visited the CLSU Laboratory High Schools on March 8, 2023. Their visit aimed to explore opportunities for international collaboration between the two institutions.

Dr. Remedios Z. Panuyas, Head of the University Senior High School (USHS), showcased the unique curricular offerings of the CLSU Laboratory High Schools, emphasizing their strong focus on Science, Technology, Engineering, Agriculture, and Mathematics (STEAM). Dr. Panuyas also highlighted the school's commitment to Education for Sustainable Development (ESD), detailing ongoing activities, notable research breakthroughs, and the active involvement of faculty and students in various international exchange programs, as well as recent research publications.



CISBAY Officials Visit CLSU for a Project Collaboration

In the spirit of making a significant contribution to the international efforts on bio innovation in the agricultural sector, CISBAY Philippines President Kenneth S. Ching and Commercial Director Anthony Allarey, together with their Asia Pacific Staff, Mr. Jimmy Tay, visited CLSU on March 1, 2023 for a project collaboration on developing scientific and business cooperation. CISBAY is a bio innovation company that provides a platform for agricultural products and environmental water treatment solutions globally.



US Embassy Targets Possible Collaboration with CLSU

Delegates from the Public Affairs Office of the U.S. Embassy in the Philippines led by Ms. Pauline Anderson visited CLSU to oversee the University American Heritage District and discuss the possible collaboration on preserving the history of the American regime in the University.

Dr. Emil F. Ubaldo and Asst. Prof. Floper Gershwin E. Manuel presented the plans on the restoration of old houses built during the reign of American superintendents and the improvement of the superintendents' park and botanical garden.

Certifications & Membership



AUN-QA

Three programs of CLSU successfully received certification from the Association of Southeast Asian Nations (ASEAN) University Network-Quality Assurance (AUN-QA) during its 316th Programme Assessment held from January 30 to February 3, 2023.

The Bachelor of Science in Fisheries, Bachelor of Science in Biology, and Bachelor of Science in Agricultural and Biosystems Engineering programs, headed by their Self-Assessment Report (SAR) Heads, Dr. Ravelina R. Velasco, Dr. Angeles M. De Leon, and Dr. Elmar M. Villota, respectively, are now added to the list of the AUN-QA certified programs.

This accomplishment solidifies further the University's efforts to provide a more holistic and transformative education anchored on its mission and institutional core values.

The AUN-QA is an international network created to realize the mission of harmonizing educational standards and seeking continuous improvement of the academic quality of universities in the ASEAN region.



WURI

The University submitted three innovative projects under the Industrial Application, Ethical Value, and Fourth Industrial Revolution categories which were evaluated based on innovativeness, implementability, and impact.

CLSU garnered the following rankings from the three aforesaid categories:

- Top 27 on Industrial Application and ranked 1st in the PH with Program titled "Nanogold ASF Test Kits: Bringing Life to an Ailing Swine Industry"
- Top 25 on Ethical Value and ranked 2nd in the PH with Program titled "Community empowerment for inclusive and sustainable development in a technology-driven society"
- Top 19 on Fourth Industrial Revolution and ranked 5th in the PH with Program titled "PreDiCt: Advancing Digital Agriculture, Ensuring Food Security"



Times Higher Education Impact Ranking 2024

THE Impact Ranking

CLSU was assessed based on the impact it made on the five United Nations Sustainable Development Goals (SDGs) namely, (SDG7) Affordable and Clean Energy, (SDG13) Climate Action, (SDG14) Life Below Water, (SDG15) Life on Land, and (SDG17) Partnerships for the Goals.

CLSU maintained its top performance in addressing climate change through environmental education as it placed 1st in the country and 201-300 globally under SDG 13.

The University also fared well in achieving sustainable energy as it ranked 2nd in the Philippines and 301-400 globally under SDG 7. Also, it clinched the 4th spot nationally and 201-300 internationally under SDG 14.

The 2023 THE Impact Rankings released its fifth edition which included 1,591 universities from 112 countries/regions and measured the performance of each university on the attainment of the 17 SDGs.



UC Membership

The Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) accepted and approved the application of Central Luzon State University (CLSU) as a regular member during its 36th Executive Board meeting held on October 30, 2023, at the National Taiwan University in Taipei.

University President Edgar A. Orden presented the accomplishments of CLSU, as an affiliate member, in support of its application to elevate its engagement with UC as a regular member. With its active participation, significant contributions to the organization, and after proving its stature as a leading university Southeast Asia with graduate education programs in agriculture and natural resources, the Consortium has finally recognized CLSU to be a deserving UC member.

Student Services

Kapihan ng OSA

Recognizing the significance of an open and constructive dialogue with the students, CLSU held once again the consultation with its main clientele dubbed as “Kapihan ng OSA”, a platform that brings together students, faculty, and administrators to address the issues and concerns of the community.

Through this activity, students are provided a safe space to voice out their concerns and encouraged to discuss topics, including academic matters, campus facilities, extracurricular activities, mental health support, and overall student welfare. The insights gained from the student’s perspective are considered vital by the administration in the development of policies and initiatives in providing excellent service to the students, faculty and staff.





Ligtas CLSU

The Office of Student Affairs (OSA) and student-leaders from various organizations congregated to formally launch the Laban sa Ipinagbabawal na Gamot, Tulay na Aagapay sa Sielesyuans at Sambayanan (LIGTAS) CLSU last November 22, 2023 to combat the prevalence of illegal drug abuse within and beyond the university.

After being hailed as Champion for the School Poster Presentation during the LEAD 2023, LIGTAS CLSU, along with the activities and project proposals that coincide with it, was institutionalized as an ad hoc committee under the University Supreme Student Council to take part in the University's mitigation strategy against substance abuse and addiction.



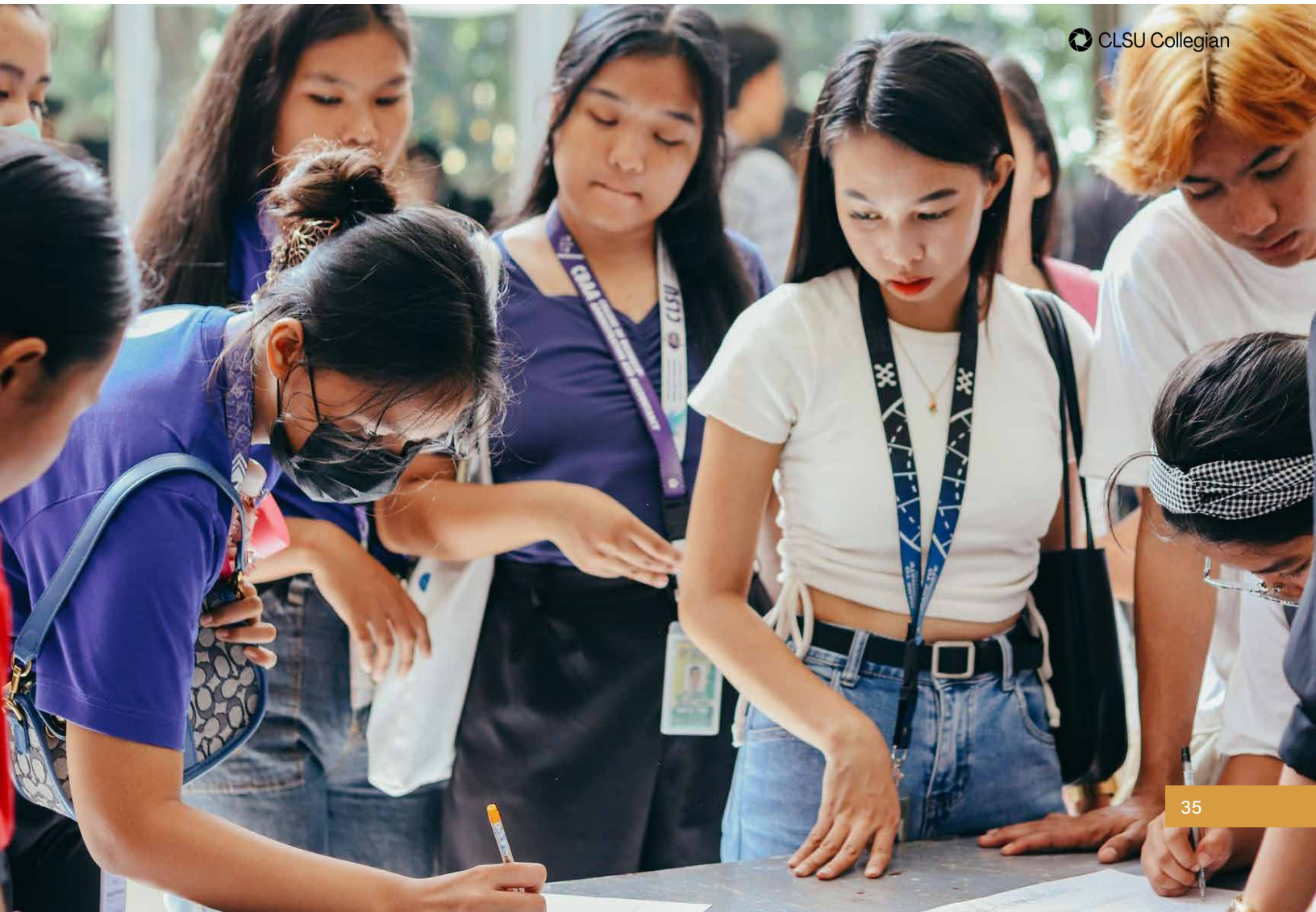
Career Development Seminar Series

With the theme "Transforming CLSU Students into Globally Competitive Workforce," Career Development and Employment Services Unit (CDESU) under the Office of Student Affairs (OSA) conducted back-to-back seminar sessions on mental health and monetary literacy for the graduating students of CLSU at University Auditorium on November 9 and 15, 2023.

Student Part-Time Employment Service (SPES) Program

Seventy-four Student Part-Time Employment Service (SPES) Program beneficiaries were deployed in various offices in the University to serve as student assistants last September 1, 2023.

The program equips CLSU students in the actual workplace for them to gain skills and knowledge relevant to their academic field. This is one of the services under the Career Development and Employment Services Unit (CDESU) of the Office of Student Affairs funded by the University Gender and Development Office (UGADO).







**Transformative
& Enabling**

Environment

Facilities Development and Improvement

For this year's infrastructure project, the administration prioritized the welfare of its faculty and students through building and renovating various facilities that play a crucial role in ensuring the comfort, safety, and security of employees and students.

Some of the constructions focused on building or improving comfort rooms, while others included the installation of smoke detectors, power generators, and CCTV to ensure the safety of everyone. These projects aim to provide a conducive environment for faculty, staff, and students.

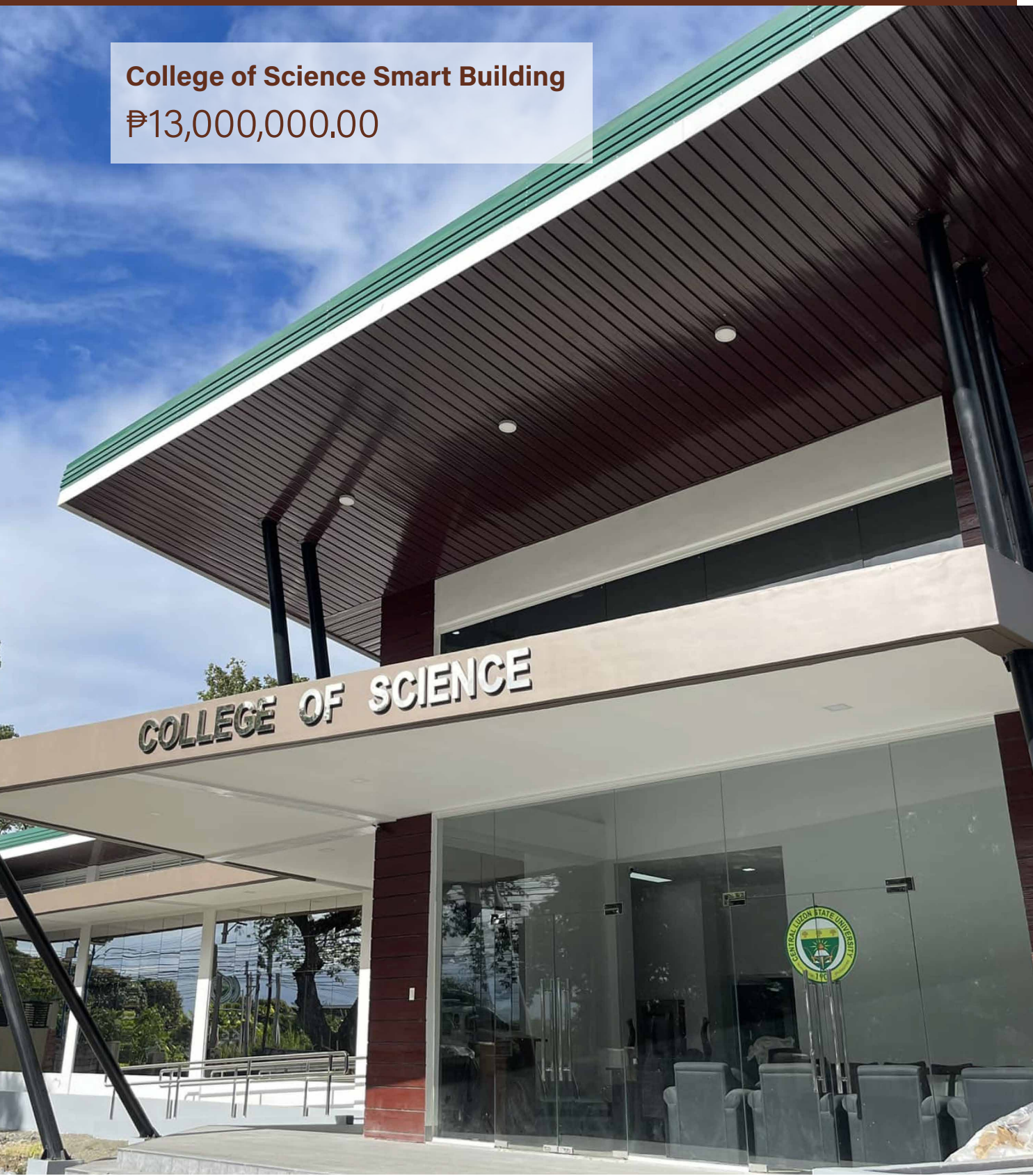
Completed Projects

Infrastructure	Budget
Renovation and Improvement of Lecture Rooms, Laboratory Rooms, and Offices of the CAS Annex Building	₱25,000,000.00
Repair and Improvement of the R&E Amphitheater	₱1,984,328.57
College of Engineering Comfort Rooms	₱492,500.00
Renovation of USHS Comfort Rooms of Grade 7	₱494,534.41
Student Union Building	₱4,618,029.29



College of Science Smart Building

₱13,000,000.00



Upgrading of Services

Community Market Opens to Public

The University Business Affairs Program (UBAP) opened the new CLSU-Community Market providing a spacious, clean, and comfortable place where students, faculty, staff, and other stakeholders can have access to food, refreshments, school supplies, printing, and internet services.

The newly built market covers a total land area of 1,226 sq.m. featuring 12 new stalls, gender-neutral comfort rooms, and common areas for the customers. Each stall measuring 44 sq.m. features an open area for customers, an individual kitchen, a comfort room and a backdoor access for the ease of their operation.



NIA Solar-Powered Pump

The National Irrigation Administration – Upper Pampanga River Integrated Irrigation Systems (NIA-UPRIIS) Division 1 turned-over five solar-powered pump irrigation facilities installed within the premises of CLSU to support the Basinay Irrigators Association (IA) Inc. and the University's research crop production and experimental sites. The project amounting to six million pesos is part of NIA-UPRIIS effort to intensify the modernization of irrigation systems nationwide.



Smart Classroom

In an effort to bridge the digital divide and elevate the learning environment of students, CLSU starts investing in establishing smart classrooms.

The University, through the International Affairs Office (IAO), recently unveiled its first smart classroom prototype as the ideal learning classroom space. It was fully equipped with educational tools, communication, and learning technologies that will allow students to learn, collaborate, and innovate in many ways for a truly interactive and dynamic classroom experience.

The said Visionary Smart Classroom features 20 node chairs equipped with tablets where learners can access materials and activities through the learning management systems. Also, an 85 inches smartboard was installed so that lecturers or facilitators could

maximize the learning equipment by integrating the hybrid mode lectures for both online and onsite.

The CLSU Administration has allotted almost 4 million pesos for the realization of this project with the College of Education, College of Engineering, College of Agriculture, and College of Fisheries for the first phase, while the College of Arts and Social Sciences, College of Business Administration and Accountancy, College of Veterinary Science and Medicine, and College of Home Science and Industry for the second phase.

With the smart classrooms in place, the University will now be able to embrace the shift in learning pedagogies that will enhance the learning processes of students.



R&D Integrated Information System and KAMALIG Booking System

The Office of the Vice President for Research and Extension launched the Research and Development Integrated Information System (RADIIS) and KAMALIG Booking System. The RADIIS is a database system composed of data and information that manages and summarizes all of the R&D Centers' programs, projects, and studies. On the other hand, due to the oozing popularity of the KAMALIG Agritourism Site, the Booking System was created to enable visitors to schedule their visit online for proper coordination and preparation during their visit.

The development of the two systems aims to store data in a sophisticated manner, making the process of finding the generated university data and information much easier, as well as providing better and informed decisions.



Equipment

Tractors with Farm Implements

The University Business Affairs Program (UBAP) led by Vice President Ariel G. Mactal, held the blessing of the newly-acquired two additional tractors with farm implements that will be used for the rice production of the University. The tractors amounting to one million pesos each were purchased through the earnings of UBAP.

Moreover, the Department of Agriculture Regional Field Office III (DA RFO III) donated one unit of a 55hp four-wheeled tractor as a support to the initiatives of the University in its pursuit for sustainable farming practices.



Strengthening Human Resources

To facilitate effective teaching strategies and the implementation of diverse programs in the university, CLSU faculty members and staff are actively involved in capacity building and taking their postgraduate education to further equip and gain knowledge for the sharing of knowledge among the students, ensuring a sustained positive impact on the education landscape and the services provided to CLSU clientele.

Faculty members who completed their advanced degrees

Name	College	Degree/ Course	University
Acoba Evelyn F.	College of Arts and Social Sciences	Ph.D in Psychology	CHED - De La Salle University
Britanico King Phillip G.	College of Arts and Social Sciences	Master of Arts in Letters	CLSUFSDP - Far Eastern University
Cadiz Ma. Catalina D.	College of Education	Ph.D in Industrial Education	CLSUFSDP - Technological University of the Phils.
Castillo Claire Marie M.	College of Engineering	Ph.D in Biological & Agricultural Engineering	ERDT- Washington State University
Flores Jhopet D.	College of Engineering	MS in Meteorology	CHED- UP Diliman
Manuel Lalaine F.	College of Education	Ph.D in Curriculum & Instruction	CLSUFSDP - Phil. Normal University
Ruiz Wawie DG	College of Arts and Social Sciences	Master if Arts in Psychology	CHED - De La Salle University
Salvador Diane Joy C.	College of Science	Master of Arts in Education	CLSUFSDP- Phil. Normal University
Suarez Leira Mae M.	College of Agriculture	Master of Mgt Agri-business Management & Entrepreneurship	CLSU-FSDP - UPLB
Valentino Mary Jane G.	College of Science	Ph.D in Botany	DOST- UPLB

Scholars who commenced their degree programs/advanced research

Name	Degree (Specialization)	University	Scholarship
Tangonan, Jomer A.	Ph.D in Multi-Cultural Studies	Mahidol University, Thailand	CLSU-Faculty Staff Development Program
Valdez, Aldo C.	MS in Agricultural & Biosystems Engineering	Central Luzon State University	DOST-ERDT
Badua, Sylvester A.	Post Doctoral - Agricultural & Biosystem Engineering	Kansas State University	Kansas State University
Mananggit, Mark Allan C.	Ph.D in Applied Behavioral Science Research	Srinakharinwirot University, Bangkok, Thailand	CLSU-Faculty Staff Development Program
Padilla, Celynne O.	Ph.D in Biological Resources	Tamagawa University Japan	JICA Dev't Studies Program
Navarro, Shiela Marie C.	Ph.D in Earth, Life and Environmental Sciences	University of Toyoma, Japan	MEXT
Francisco, Reyniel G.	Ph.D in Social Innovation & Sustainability	Thammasat University Thailand	Thammasat Univ Scholarship Program
Doctolero, Jemuel S.	Ph.D in Fisheries & Aquatic Sciences	Purdue University, Mexico	Fulbright Foreign Scholarship Program
Pagador, Princes Mara E.	Ph.D in Multi-Cultural Studies	Mahidol, Thailand	CLSU-Faculty Staff Development Program
Ilagan, Gerardo V.	MS in Chemistry	Ateneo University	DOST
Valencia, Raniel A.	Ph.D in Animal Science, Ruminant Nutrition	University of Reading, U.K	Marie Sklodowska Curie Research Scholarship Program
Crisostomo, Jane Camille A.	Ph.D in Animal Science	Graduate School of Bioresources, Japan, MIE University	MEXT Scholarship
Ramos, Gloria N.	Ph.D in Biological & Agricultural Engineering	Kansas State University	DOST-ERDT
Lamson, Kristelle S.	Ph.D in Tourism & Hospitality Management	De La Salle College of St. Benilde	CLSU-Faculty Staff Development Program
Ignacio, Revelyn Q.	Ph.D/Edd - Industrial Education Management	Technological University of the Philippines	CLSU-Faculty Staff Development Program
De Guzman, Baby Lyn T.	Ph.D in Tropical Agriculture & Horticulture	Kasetsart University	DOST-SEI
Francisco, Glyzel Grace M.	MS in Statistics	U.P., Diliman, Q.C	DOST
Abella, Jan Vincent P.	Ph.D in Psychology	Ateneo De Manila University	Nutrimentos Techno, Inc.
Rengel, Davelyn S. Pastor	Ph.D in Marine Science	U.P., Diliman, Q.C.	DOST-SEI



Faculty & Staff Profile

The faculty play a vital role in creating an effective learning environment for students while the staff deliver an exceptional service to its stakeholders. Thus, in 2023 the university implemented the Revised Organizational Structure and Staffing Standards for State Universities and Colleges (ROSS) which provided additional manpower to the university.

Meanwhile, the institutional merit promotion has led to several faculty members being promoted, thereby opening up opportunities to hire additional qualified faculty. This has resulted in an expanded faculty roster, which has strengthened our capacity to meet the evolving needs of our institution and its stakeholders.

Faculty with Plantilla Item	520
Job Order/Contract of Service Worker	502
Non-academic Staff with Plantilla Item	461
Part-time Lecturer	11

Doctorate Degree Holder	140
Master's Degree Holder	254
Baccalaureate Degree Holder	126

University Professor	3
Full Professor	55
Associate Professor	171
Assistant Professor	98
Instructor	193
Adjunct Professor	6



Other Employee & Student Development Activities

116th Founding Anniversary

Over a decade of providing service to humanity, CLSU successfully held its weeklong celebration of the 116th founding anniversary on April 11-14, 2023. With the theme “Celebrating a borderless, transformative, and visionary leadership in higher education”, various activities were staged and attended by students, employees, and other stakeholders.

The festivities kicked off with the parade followed by the opening program at the CLSU Auditorium. Meanwhile, some of the student-initiated activities included the opening of the Bazaar to further boost the entrepreneurship skills of the students.

One of the highlights of the weekly celebration was the State of the University Address (SUA) delivered by University President Edgar A. Orden which contained the accomplishments and initiatives of the university towards becoming a World Class National Research University for Science and Technology in Agriculture and allied fields.

Furthermore, on the evening of the second day, the most-awaited fireworks display brightened the skies of the CLSU Oval wherein over a thousand

students, faculty, and staff gathered to watch and be mesmerized by the grand fireworks display which lasted for almost five minutes.

On the third day, activities such as the Professor of the Day took place for each college to inspire the students in the different career paths they wanted to pursue.

Meanwhile, on the last day there was the inauguration of the Visionary Leadership Gate and Sapang Asta, and the Soft Launching of American Superintendent Park which were graced by the Hon. Micaela “Mikki” Violago, former representative of the 2nd District of Nueva Ecija, and Mr. John Groch, Public Affairs Officer at the U.S. Embassy and his staff.

The CLSU Administration also recognized the employees who have rendered years of dedicated service to the university and honored the outstanding employees for their excellent service during the PRAISE Awards and Recognition Night.





State of the University Address

University President Edgar A. Orden delivered the annual State of the University Address (SUA) during the Special Joint Session of the Program Councils wherein he presented the journey of CLSU towards becoming a world-class national research university, held on April 12, 2023.

President Orden highlighted the achievements of the core programs – Administrative, Academic Affairs, Research and Extension, and Business Affairs, categorized into borderless, transformative, and visionary leadership in higher education.

“This is CLSU. Establishing a sustainable environment for the future, generating knowledge and technology, creating an impact on the community, and striving as a world-class national research university. We are borderless, transformative, and visionary. WE ARE CLSU!” - President Orden

The SUA was attended by more than 1,000 faculty, staff, students, and invited guests including the head of agencies in Munoz.

Fun Run

The University Gender and Development Office (UGADO), headed by Prof. Janet O. Saturno, organized a fun run in support of the celebration of National Women's Month. With the nationwide theme "WE for Gender Equality and Inclusive Society", the event was joined by more than 300 participants from the CLSU community including executive officials, deans, directors, faculty, staff, and students.



SCUFAR III 2023

Fostering camaraderie and sportsmanship in sports and cultural performances, a total of 241 faculty members and non-academic staff competed in a friendship game for the State Colleges and Universities Faculty Association of Region III (SCUFAR) held at the Nueva Ecija University of Science and Technology (NEUST) from March 1-3, 2023.



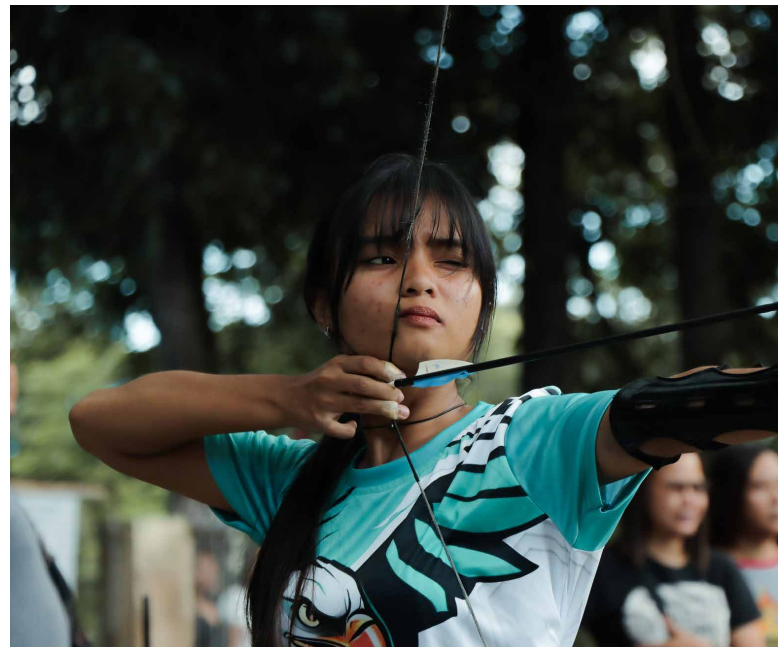
SIKAD 2023

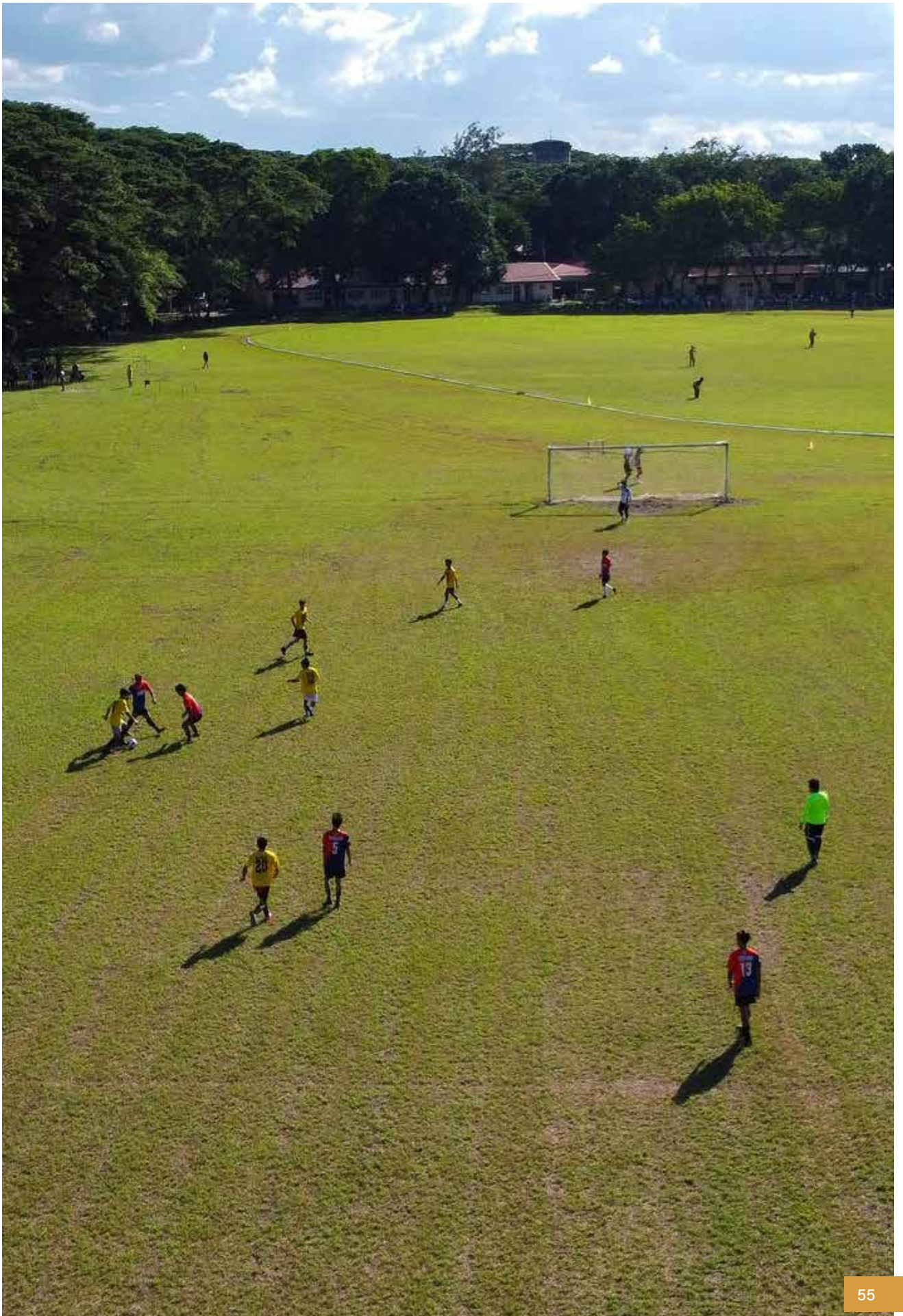
The Office of Student Affairs - CLSU (OSA) and the University Supreme Student Council (USSC) organized the opening event for the academic year 2023-2024 dubbed as SIKAD - 'Sinag ng Kalinangan, Agapay at Dalubhasaan', which featured a variety of programs and events from August 7-11, 2023 intended for all the students, especially the freshies



57th Intramurals

After the three-year hiatus in Intramurals, the student-athletes and coaches geared up with their unit shirts flaunting their monikers, college colors and chants during the 57th University Intramurals held on October 12-14, 2023.





Compliance to International Standards



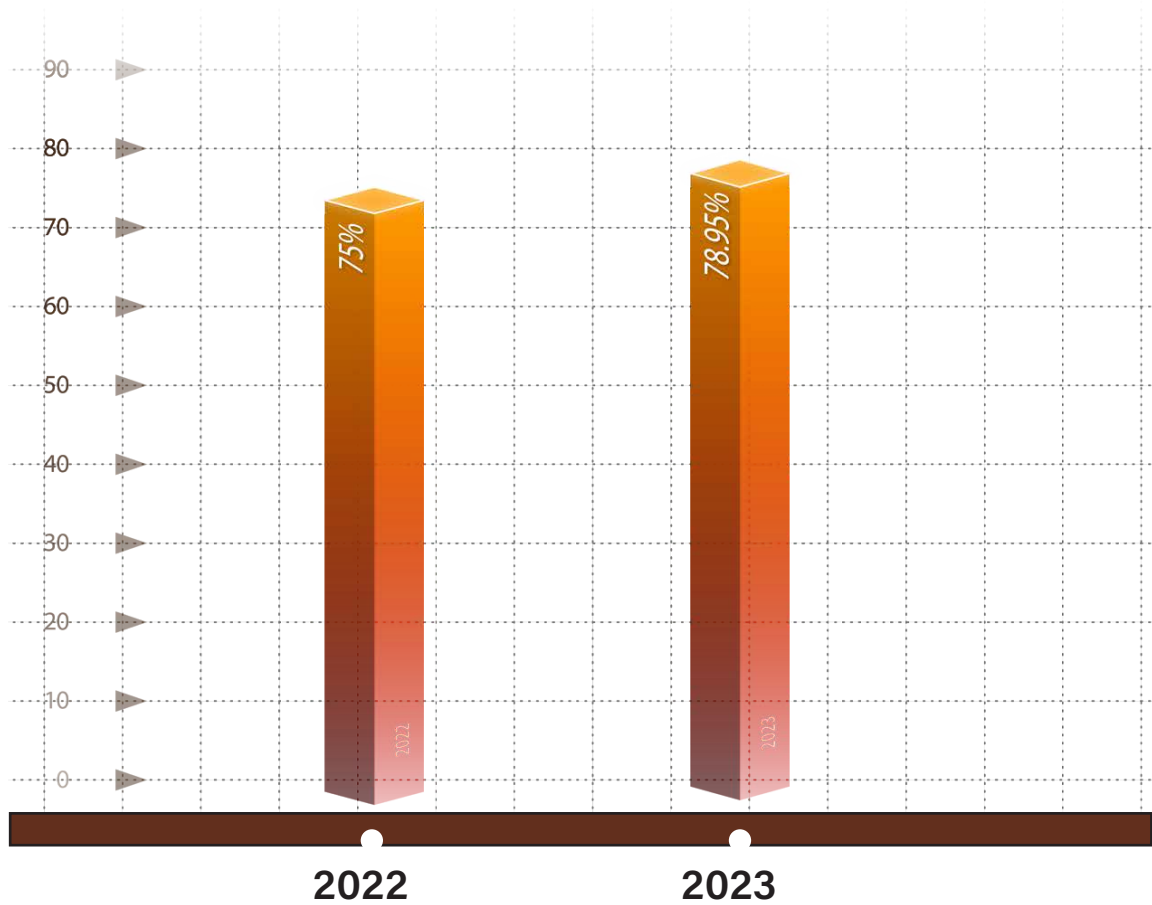
ISO 9001:2015 Certification

CLSU successfully passed the Recertification audit of ISO 9001:2015 standard conducted by the SOCOTEC Certification Philippines, Inc. after a two-day scrutiny of the documents and services of the four programs – Academic, Research and Extension, Administration, and Business Affairs held on May 8-9, 2023.

The audit aimed to ensure that the University implements its quality management system (QMS) specifically in the provision of advanced and higher education services, research services, and extension and technical advisory services. The recertification is valid until May 18, 2026.

IAS Audit Report

For the year 2023, the Commission on Audit (COA) through the Internal Audit Services certified CLSU after fully implementing 30 out of 38 (78.95%) of the recommendations by the resident auditors.



Implementation Status of Audit recommendations

	2022 (Recommendations for CY 2022 and previous years)	2023 (Recommendations for CY 2023 and previous years)
Total No. Recommendations	36	38
Fully Implemented	27 (75%)	30 (78.95%)
Partially Implemented	6 (16.67%)	6 (15.79%)
Not Implemented	3 (8.33%)	2 (5.26%)



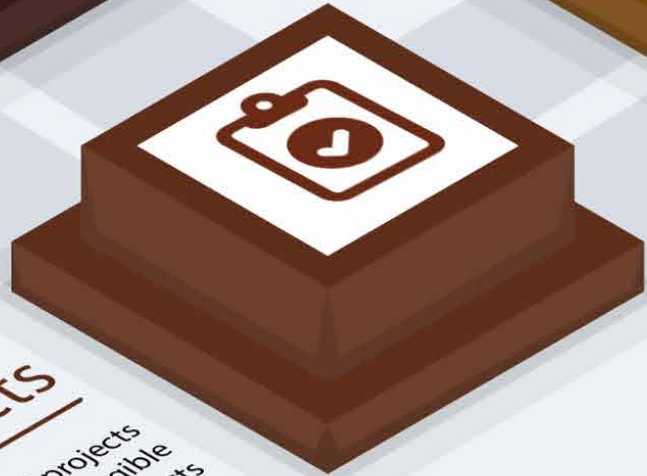
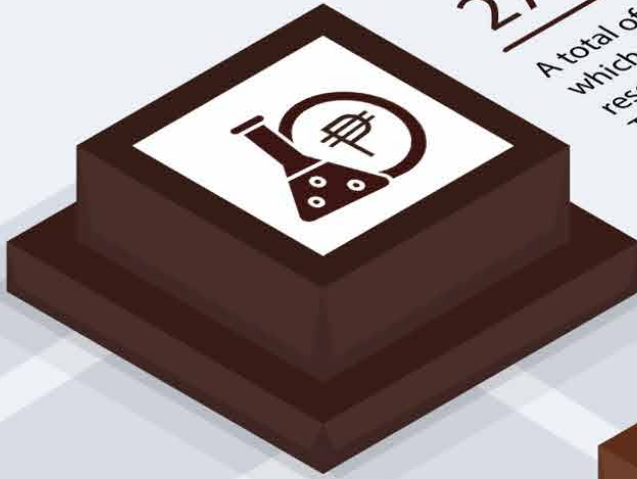


Breakthrough
Knowledge &
Innovation

A Thriving Hub for R&D

273 M Funds Generated

A total of P273,970,823.49 funds were generated which enabled CLSU to channel significant resources into groundbreaking R&D projects. These funds have fueled a wide range of initiatives, pushing the boundaries of knowledge and innovation.

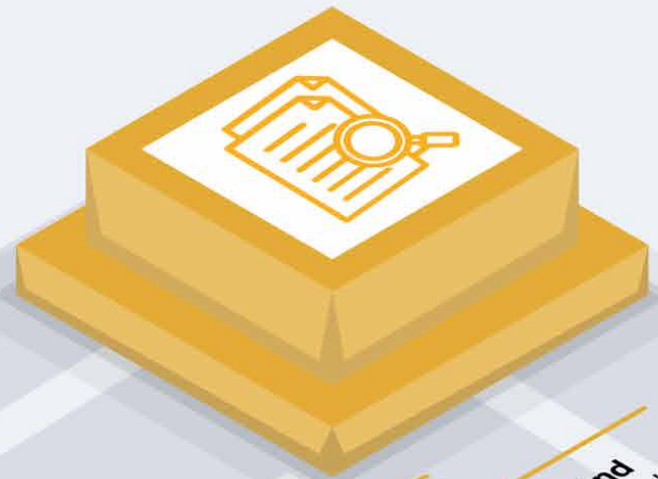


25 Completed Projects

CLSU proudly boasts 25 completed projects that have already begun to make a tangible impact on the communities. These projects span diverse areas such as sustainable agriculture, climate change adaptation, and renewable energy.

255 Ongoing Projects

CLSU's journey is far from over. With 255 ongoing projects, the University is a bustling hive of research activity. From developing climate-resilient crops and advancing biotechnology to creating smart farming technologies and promoting environmental conservation, CLSU is at the cutting edge of innovation.



Research Papers

CLSU researchers have presented **96 papers and posters** at conferences, sharing their findings and insights with the global academic community. Furthermore, **28 research papers** have been published in refereed and Scopus-indexed journals, underscoring the University's dedication to contributing to the global body of knowledge.

10 Most Cited Scientists

1. Mateo, Wendy C.
2. Denson, Melba D.
3. Dulay, Rich Milton R.
4. Kalaw, Sofronio P.
5. Quiazon, Karl Marx A.
6. Reyes, Renato G.
7. de Leon, Angeles M.
8. Juvinal, Joel Garcia G.
9. Lavarias, Jeffrey A.
10. Somera, Carolyn Grace G.

Generated Technologies

Mobile App Fingerlings Counter

The application incorporates an image-capturing feature that captures images of tilapia fingerlings. This is followed by an algorithmic process that accurately counts their population. The accuracy range of the system is between 87-95%, which may vary depending on the computational capacity and power of the mobile device used for the counting process. This innovative approach simplifies the counting of tilapia fingerlings, providing a reliable tool for hatchery production managers. It also contributes to efficient aquaculture management practices.





Automatic Fertigation

Automated Fertigation is the process of fertilizing and irrigating crops simultaneously using machines and sensors to manage water and nutrients. This innovative system detects the moisture content of the soil and releases water containing the fertilizer when irrigation is needed. As a result, it requires less labor and resources to operate, making it an efficient and cost-effective solution for farmers.



A large-scale broiler production facility. The image shows a dense population of young yellow chicks housed in wire cages. In the foreground, a long row of red plastic feeders is suspended from a white metal bar. The background shows more cages and the structure of the farm, with some lights visible in the distance.

ARTMOS for Broiler Production

The Automated and Real-Time Monitoring System (ARTMOS) for broiler production is a technology that can help improve the productivity and profitability of poultry farms. It specializes in monitoring the important parameters in the broiler production system such as temperature, humidity, feeding rate, frequency of feeding, water supply, and voltage of power supply. Moreover, the said technology will include features like an alert system via mobile phones that will remind the in-charge personnel to refill the containers for feeds, vitamins, antibiotics, and power interruption. The alert system will send information to its corresponding application or website that can be easily installed on mobile phones.

Agrivoltaic (AV) Technology in Farm Production System

The integration of agrivoltaic (AV) Technology in farm production system promotes the utilization of PV solar technology in agricultural production to maximize the land use utilization, thus, increasing farmers income. In addition, the technology could have a great contribution in the mitigation of climate change particularly in the reduction of carbon emissions. The AV technology was located at the Precision and Digital Agriculture Center with a land area of 15m x 12m and a total of 24KW solar PV panel. The PV frame is designed to be adjustable and laid-out for optimum space utilization for power generation and crop production.



Developed Knowledge Products

For the effective dissemination of knowledge and technologies, CLSU had a multi-faceted approach in sharing print and digital materials. The University continuously developed and updated knowledge products (KP) of recent technologies and information tailored for its target clientele. It predominantly encompasses information related to agricultural development.

85

New Knowledge Products

21,426

Distributed Knowledge Products



InPEELnity

This coffee table book highlighted the utilization of dragon fruit peel entitled InPEELnity: Turning Waste into Things with Good Taste, a book that translates research into opportunities as they explored and discovered the health benefits present in dragon fruit peel and developed food products, beauty products, herbal supplements, paper and craft, and colorant. It also contains seven parts which include the background of the research grant, the nutritional value of dragon fruit peel, the process of developing food products, and the journey of the research team in implementing the two-year project.



Protection of Knowledge & Technologies



Provided Additional R&D Funds for Humanities and Social Sciences

CLSU has allocated **₱8,000,000.00** to boost R&D initiatives in the fields of humanities and social sciences. This funding has led to the approval of 20 diverse projects, covering topics such as virtual reality, documentation of technology transfer initiatives, cybersecurity, cultural preservation, and various social science studies. Additionally, through the initiative of Sen. Loren Legarda, the University has secured further funding for the publication of three books on indigenous studies, specifically focusing on Philippine mushrooms and crop production.





FUTURES THINKING PROGRAM

#KaninAtUlam

Kanin at Ulam: A Future's Thinking Program for Food Sufficiency and Security

With the constant effort of the University on food security along with the advocacy of Sen. Pia Cayetano toward Sustainable Development Goals (SDG), two additional projects focusing on goat and mushroom commodities were implemented to develop functional foods that will safeguard the future generations.

These two projects are the MyCLOUD Myco (Mushroom) and Chevron food products: Livelihood Opportunities in the Upcoming Decades and Selection, Viability Study and Microencapsulation of Starter Culture from Mushroom for the Development of Non-dairy Probiotic Beverages. They aim to develop fresh and processed (Ready-to-Eat and Ready-to-Cook) mushroom and chevon food products in local/regional and international recipes that are economically portioned and nutritionally valuable, utilizing current technologies and a combination thereof that is ready for cloud kitchen (digital) markets and for future crises and emergencies.







**Maximum
Impact through
Proactive
Engagement**

Technical Support, Extension Services, and Training

Retooling on AxB and AxR Seed Production

The Philippine-Sino Center for Agricultural Technology (PhilSCAT) conducted a 4-day training workshop on “Retooling on AxB and AxR Seed Production” from August 29 to September 1, 2023 at the R.C. Undan Hall. The training was participated in by PhilSCAT-Hybrid Rice Technology Division (HRTD) technical staff and farm laborers to equip them on the policy and guidelines of AxB and AxR seed production. Lectures on topics including hybrid rice seed production technology, integrated pest management, postharvest activities, and AxB and AxR seed production were provided by DA-ATI and PhilSCAT experts.

Moreover, a 2-day field exposure was conducted to allow the participants to observe and perform rouging as one of the crucial activities in producing hybrid rice seeds as their hands-on experience on its proper implementation.



Mushroom Production Training through TVP

A training session on mushroom production, with a focus on the cultivation of *Volvariella volvacea*, commonly called the straw mushroom, was conducted in Brgy. Calabalabaan, Science City of Muñoz, Nueva Ecija.

The Techno Village Program (TVP) provided the farmers with a comprehensive knowledge of mushroom production. Participants learned about the ideal growing conditions, necessary materials, and cultivation techniques specific to *Volvariella volvacea*. They were also shown practical techniques for setting up mushroom beds and proper handling of planting spawns and covers. The hands-on demonstration allowed the participants to observe and experience the techniques firsthand.

They prepared the participants to start their own mushroom setups. Upon completion of the program, start-up kits consisting of planting spawns and covers were distributed to the farmer beneficiaries to kickstart their own setups.



Skills Development on Literacy and Numeracy of Agta Community

The Department of Mathematics and Physics embarked on an extension activity aimed at skill development in literacy and numeracy among the Agta people in the locale of Sitio Paraiso in Casiguran, Aurora. The sessions, which were in an informal classroom setting, were held once a month with an average attendance of 10 participants, including female adults and young children.

The activity enhances the basic literacy and numeracy skills for both adults and children of the Agta community. Specifically, the program focused on teaching basic reading and writing skills, as well as foundational counting abilities. Over the past few months, remarkable progress has been observed. Adults in the community can now count from one

to one hundred and read and write both small and capitalized vowels, alongside several consonants, with minimal supervision. Furthermore, they have achieved the significant milestone of being able to spell and write their names.

With the success of this initiative, the Department plans to expand the scope of its activities. Future sessions may incorporate more advanced literacy and numeracy skills, along with practical applications that align with the community's needs and interests. The ultimate goal is to create a sustainable model of education that the Agta community can continue independently, ensuring long-term benefits and continuous growth.



Trainings

One of the primary objectives of the University is to extend its cutting-edge technologies to the community and harness the potential of its farmer-partners. In line with this, CLSU, through the consolidated efforts of its specialized R&D centers, has made a significant impact on its stakeholders. This impact is evidenced by the engagement of 10,141 trainees, including farmers, students, researchers, and cooperative members, highlighting the breadth of its outreach and the depth of its influence.

37
Webinars

10,141
Trainees

73
Trainings
Sessions



Gender and Development Training Series

CLSU through the University Gender and Development Office (UGADO) ensures that the mainstreaming of gender across the four programs is well implemented, thus, a series of capacity enhancements on gender and development were conducted. Through these, the University is confident that gender perspectives were integrated into instruction, research, extension, and production.

Various topics were offered to the faculty, staff, researchers, and partner institutions. Topics on gender sensitivity, gender analysis and gender analysis tools, gender research and development projects,

translating gender research into scholarly/publishable articles in the refereed journal, training of Trainers for Gender and Development Training Providers, and GAD module development.

A total of 243 participants were capacitated and enhanced their knowledge on the gender and development concepts which can guide them to become more familiar with different gender issues and concerns that can be addressed through their programs, projects, and activities.



saGAD Kaalaman Webinar Series

In 2023, CLSU through UGADO has remained proactive in GAD advocacy through the online learning campaign saGAD Kaalaman Webinar Series. This initiative helps social media users to increase their awareness of GAD including related legal bases and other relevant topics.

Different topics were discussed such as Getting To Know About Sexually Transmitted Diseases, Domestic Violence. A Public Health Issue, CHED Memorandum Order No. 03, series of 2022- Gender-Based Sexual Harassment Cases in Higher Education Institutions (HEIs) and Other Related Sexual Offenses, Gender Discrimination and Stereotyping in Media, Parenting 101 - Child Care Practices for Early Adult and Teenage

Parents while Studying, Gender-Responsive Work Ethics for Employees, Advancing Gender Equality in Leadership Roles, Mental-Wellbeing for Men and Women Students, Life After Retirement, Gender in Community Extension, Gender Mainstreaming in Institutions, and Gender in Disaster Risk and Resilience.

A total of 1,076 participants were informed through the assistance of the accredited Philippine Commission on Women National GAD research pool, and other GAD advocates, gender issues and other related information were disseminated to the participants which can help them to be more aware of their gender rights.





Technology Transfer and Promotion

KAMALIG Visitors

CLSU, a designated agritourism site for Luzon, established a model farm dubbed as KAMALIG in 2002. With its continuous popularity, the KAMALIG S&T Agritourism site through the University Extension Program Office accommodated **4,374 visitors** from various walks of life ranging from elementary to college students; farmers to entrepreneurs; private to government officials and dignitaries; vloggers & media personalities; and university friends and alumni.

SPRICE Palusugan Sprint Feeding Program

After the successful product development of the Future's Thinking initiative of the University entitled KANIN AT ULAM Program featuring the SPRICE-UP PINAS and HIDI Tilapia Projects, a feeding program was conducted to realize the nutritional benefits of SPR-derived food products coupling with red tilapia at the Magtanggol Integrated School for Kindergarten to Grade 2 undernourished students.

The beneficiary students were fed with nutribar, rice champorado, rice muffins and rice biscuits as their healthy snack for three months which resulted in the enhancement of students' nutritional intake. Every snack's ingredient was nutrient-rich, helping the children's bodies and brains grow and function properly.



Forage Legume Production and Forage-based Pelleted Feed Production for Goats in Central Luzon

The project offered a solution to the perennial problem of seasonal feed scarcity for ruminants. Utilizing the forage technologies developed by the Small Ruminant Center on forage legume strata and forage-based pellet feeds showed a reduction in feed costs therefore, increasing financial gain in raising small ruminants.

The technology offers alternative and sustainable feed production for farmers in support to the growing large and small ruminant population in the country. Beneficiaries were the seven farmer/ farmer groups consisting of two associations, two farmer cooperatives, and three farmers.





Technical Advisory & Consultancy Services

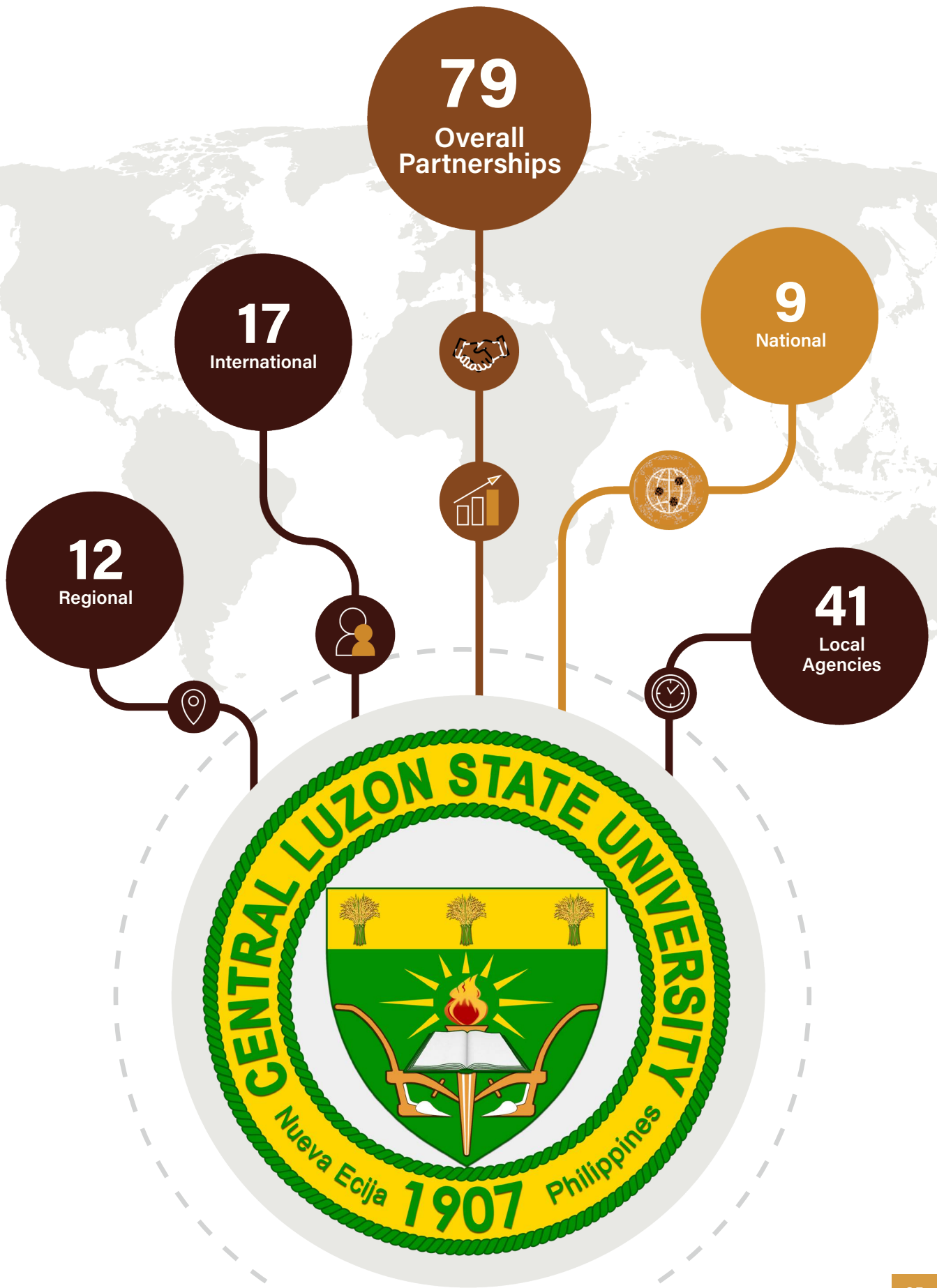
CLSU's technical advisory and consultancy services are one of dedication, expertise, and impactful engagement. With **7,512** technical advisory sessions and **3,131** consultancy engagements, CLSU continues to be a trusted partner in progress, offering valuable insights and support to a wide range of stakeholders. As the university moves forward, it remains committed to harnessing its knowledge and innovation to drive meaningful change and foster sustainable development across communities and sectors.

Forged Linkages

To establish sustainable partnerships within the industry and other institutions, CLSU has strengthened its collaborations by signing a Memorandum of Agreement/Understanding(MOA/MOU) with various entities.

In 2023, the CLSU Board of Regents confirmed partnerships with **17** international institutions, **9** national, **12** regional, and **41** local agencies. Among these, **39** were government agencies, **21** were academic institutions, and **19** were private organizations or non-governmental organizations.

These MOAs/MOUs were established to bring support to the research endeavors of the University; collaborate with the industry trends and needs that can be beneficial to students, and open internship opportunities ensuring the graduates to be work-ready and on par at the international level. Additionally, partnerships with research and development (R&D) agencies can accelerate scientific discovery and innovation, raising the bar for agricultural and aquatic initiatives.



UHAMKA, Indonesia

Strengthening its partnership within the ASEAN region, the College of Business Administration and Accountancy (CBAA) signed an MOU with the Faculty of Economics and Business, Universitas Muhammadiyah Prof. Dr. Hamka (UHAMKA), Indonesia on July 5, 2023. The partnership intends to intensify the academic and research collaboration of both universities and explore opportunities to develop and enrich other possible activities.



Hokkaido University, Sapporo, Japan

Hokkaido University International Institute for Zoonosis Control inked an MOU with CLSU to further study solutions on the emerging and reemerging transboundary animal diseases held on March 6, 2023. The collaboration intends to have a joint pursuit in academic, educational, and research cooperation associated with and limited to the field of public health microbiology, zoonoses, and other related areas in health science.



UPM, Malaysia

CLSU through the College of Fisheries (CF) held a partnership meeting with the Universiti Putra Malaysia (UPM) to explore research collaboration, student mobility, and hiring of faculty as adjunct professors. The collaboration will extend different opportunities for growth, collaboration, cutting-edge research, and learning.





ULAB, Dhaka, Bangladesh

CLSU and the University of Liberal Arts Bangladesh (ULAB) signed an MOU towards sustainability in program offerings, capacity building, academic and research collaboration, and mobility.

The first activities to be undertaken are in the areas of Development Communication, Language and Literature, Environmental Management, Freshwater Aquaculture, capacity building, and student and faculty exchange as part of international mobility.



GNIP and LGU San Clemente, Tarlac

The College of Science- Institute for Climate Change and Environmental Management (COS-ICCEM), Ramon Magsaysay-Center for Agricultural Resources and Environment Studies (RM-CARES), and Center for Renewable Energy (CREate) signed a Memorandum of Agreement with the Good Neighbors International Philippines (GNIP) and the Local Government Unit (LGU) of San Clemente, Tarlac held on May 25, 2023.

The Pit-ao Farmer's Association of San Clemente, Tarlac will be implementing the project entitled "Strengthening Climate Resilience of Agricultural Community through Organic Composting," which aims to build a Solar Powered Composting Facility that will promote a sustainable economic ecosystem in the community. RM-CARES will guide the association through conducting training on organic compost meanwhile, the CREate will extend its assistance in setting up the solar panels.





Business Affairs

Technology

Commercialization

Consolidated Income & Expenses

The University Business Affairs Program (UBAP) serves as the cornerstone for the generation of income within the University, ensuring the efficient utilization and management of its resources. In the period under review (Production Year 2022-2023), the program has not only met but exceeded its income generation goals, showcasing a remarkable increase of 54 percent compared to the previous fiscal year.

The total income generated during this productive year amounted to an impressive P18,432,812.46. This figure, in stark contrast to the previous year's P10,157,512.51, reflects a significant leap in financial performance. The surge in income highlights the efficacy of UBAP's strategies and resource management practices.

Among the various Income Generation Projects (IGPs), the Rice Module I emerged as the top contributor, yielding an astounding P10,561,880.61. Following closely was the Broiler Production Project, making a substantial contribution of P2,029,409.57. The Nursery, Pomology, and Orchard Project secured the third position, generating P1,967,427.73, while the Poultry Module 1 claimed the fourth spot with an income of P1,519,862.47.

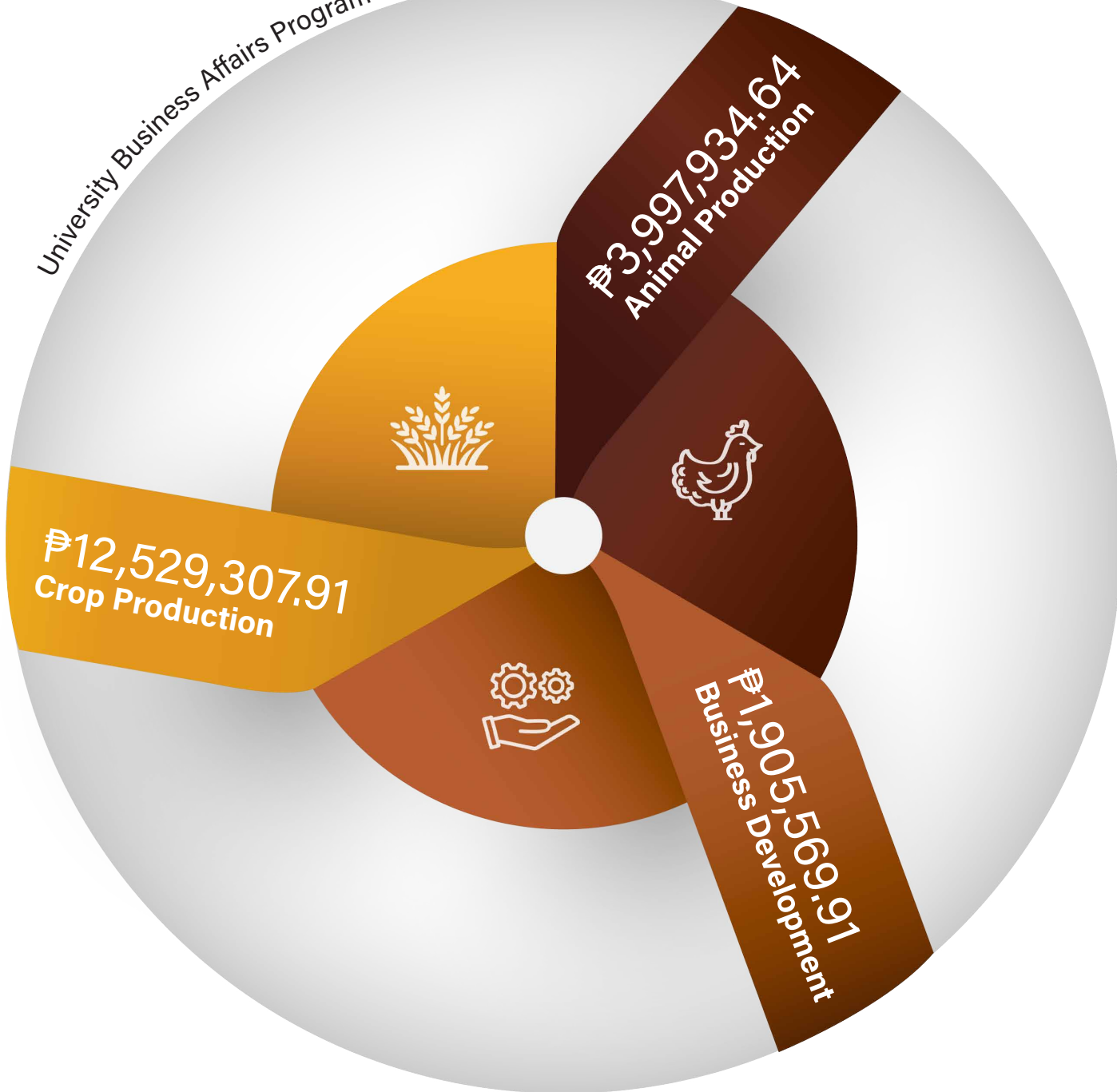
Several other projects within UBAP exhibited positive net profits, affirming the diversified income streams

managed by the program. Notable contributors to the positive financial outcome include the University Canteen Module 1, Water Refilling Station, Garment Project, Feed and Grain Processing Center, Fish Project, and Hollow Block Project.

Despite the overall positive financial performance, the University Canteen Module 2 faced challenges resulting in a negative net income. The primary issue was attributed to uncollected payments within the specified period. This highlights the importance of addressing and streamlining payment collection processes to ensure the sustainability of all income-generating projects.

In conclusion, the PY 2022-2023 has proven to be a highly successful year for UBAP in terms of income generation. The remarkable increase in overall income, coupled with the positive net profits from various projects, underscores the program's commitment to effective resource management. While challenges were encountered in specific projects, they serve as valuable lessons for continuous improvement and optimization of income-generating initiatives within the university. UBAP's ability to adapt and address challenges positions it well for sustained financial success in the future.

University Business Affairs Program's 2023 Net Income



₱18,432,812.46

Total Net Income

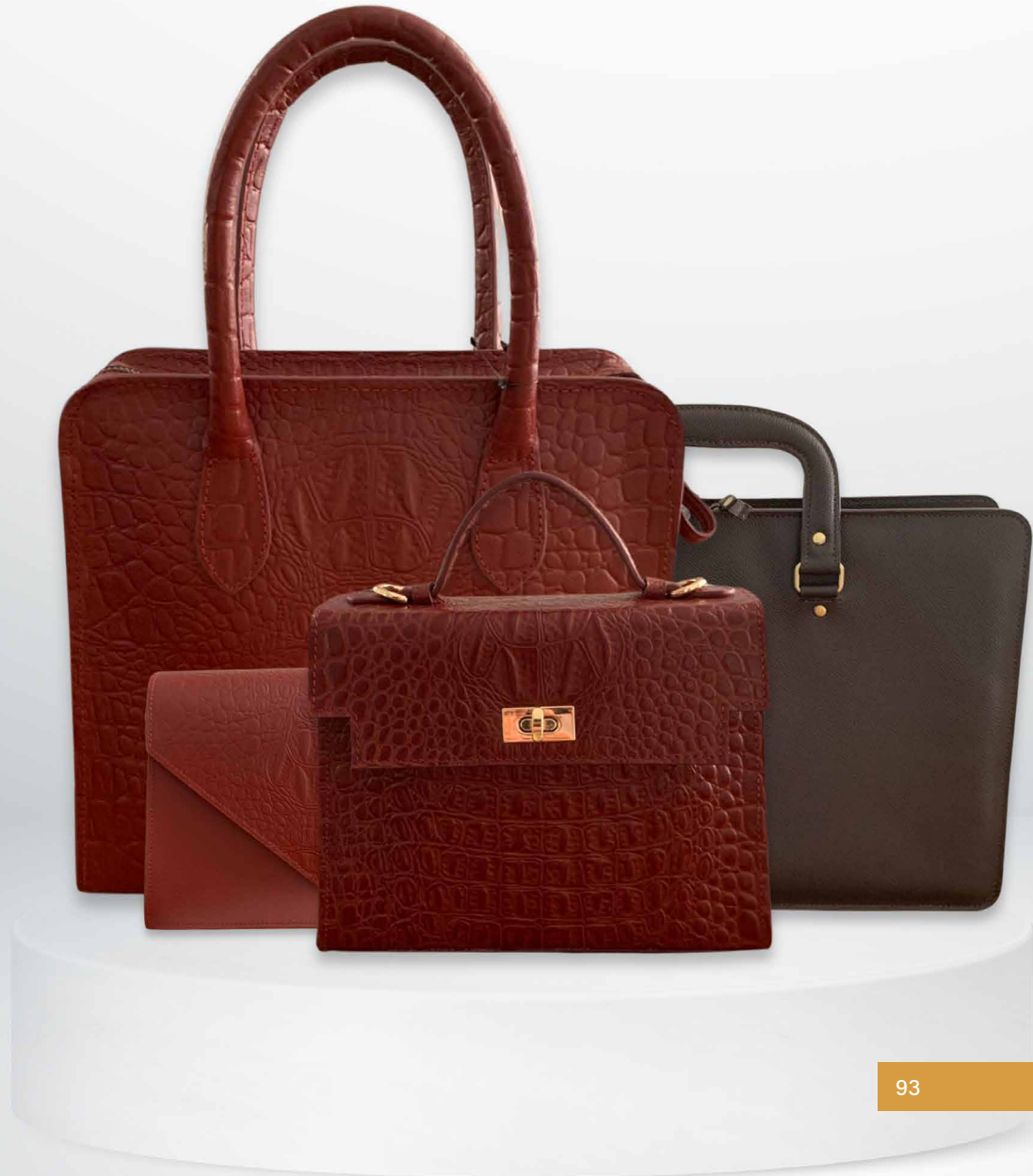
Technology Commercialization



Cara Cuero

Cara Cuero is a durable and high-quality brand of leather made from carabao hide. Manufactured by the Philippine Carabao Center at CLSU, this line encompasses a wide range of leather items including belts, sandals, wallets, bags, and shoes.

In collaboration with partners in the tanning industry in Meycauayan, Bulacan, the Center assures an array of classic and modern colors, prints, textures, finishes, and thicknesses tailored to meet customers' specific preferences.



Mush Aroy Nutrichips

MushAroy Nutrichips is a ready-to-eat snack food that is not only delicious and convenient but also packed with essential nutrients. These thin-sliced chips are made from three highly valuable and easily accessible ingredients: mushrooms, seaweed, and malunggay leaves. With their crunchy texture and balanced saltiness, these nutrichips appeal to consumers of all ages.

Developed by researchers at the College of Science - Institute of Climate Change and Environmental Management, led by Dr. Gella Patria Abella and Dr. Evaristo A. Abella, this innovative food product serves as a functional food during natural disasters such as floods, typhoons, and earthquakes, which often lead to malnutrition, particularly in children. The product was presented during a technology pitching event, promoted through exhibits and is now ready to take off for commercialization.



ProPre Boost

The ProPre Boost initiative began as a research project supported by the Department of Science and Technology (DOST) under the title "Probiotic and Prebiotic Formulation from Onion By-Products as Growth Enhancer and Immunostimulatory Agent for Fisheries". Dr. Ronalie Rafael, faculty-researcher from the College of Veterinary Science and Medicine (CVSM), developed the innovative product known as ProPre Boost, a feed additive made from onion waste and rice straw designed to enhance the gut health of fish through the use of probiotics and prebiotics.

This has been proven to increase the survival rates, bolster immunity, and fortify resistance to pathogens. Furthermore, it significantly contributes to maintaining pond water parameters at normal levels and substantially reduces coliform counts. The product is currently part of AFTBI's spin-off technology and was presented at a technology pitching event to attract potential partners and investors.



MilKreations

Catalanacan Multipurpose Cooperative (CAMPC), supported by the Philippine Carabao Center at CLSU, has transformed from a dairy milk supplier to a thriving enterprise. Established in 1987 with ₱68,000.00 initial capital, CAMPC now boasts a total share capital of around five million pesos and 167 members, with assets worth nineteen million pesos.

With support from DTI and DAR, CAMPC established a milk processing plant, and have obtained FDA accreditation. They now produce and market their own line of milk-based delicacies under the brand name Milkcreations, available at various outlets including Dairy Box and PCC Dairy Products-CLSU Outlet.



Royalty Fee

from Product Commercialization

TAO Foods Company Hand-over 3.5M Pesos Royalty Fee to CLSU

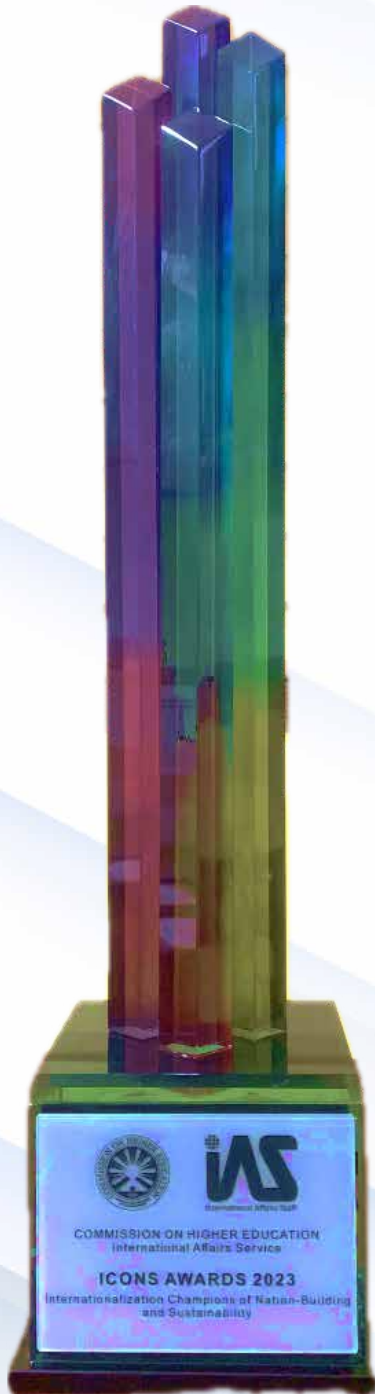
The Philippine Sino-Center for Agricultural Technology (PhilSCAT) received a P3,500,000.00 royalty fee from the TAO Foods Company, Inc. (TFCI) for the exclusive commercialization of Mestiso 82 (M82) – a PhilSCAT-bred hybrid rice variety. TFCI is a subsidiary of the TAO Corporation which aims to feed, sustain, and deliver joy to all aspects of people's lives.





Awards & Recognition

Institutional Awards





CHED Internationalization (IZN) Champions of Nation-Building and Sustainability (ICONS) Awards 2023

CLSU as one of the Higher Education Institutions (HEIs) in the country with international ranking based on the Quacquarelli Symonds (QS), Times Higher Education (THE), and the World University Rankings for Innovation (WURI)

eFARM Academy Program as a winner of Internationalization Award on StudyPH Sustainable Education Tourism Category



Freedom of Information (FOI) 2nd Runner-up

Presidential Communications Operations Office (PCOO)



State Colleges and Universities Athletic Association III

2nd Runner-up



Most Innovative Product 1st Place

2nd KADIWA Pop-Up Store (3-day retail Selling) Exhibit



**Non-Timber Forest Product (NTFP)
Fashion Design Competition
Champion**

Department of Environment and Natural Resources -
Forest Management Bureau (DENR-FMB)

Faculty Awards



Dr. Virginia M. Venturina

Most Outstanding Professional in the field of
Veterinary Medicine and Chemical Engineering

Professional Regulation Commission (PRC)

Dr. Juvy J. Monserate

Most Outstanding Professional in
Chemical Engineering

Professional Regulation Commission (PRC)



Dr. Edgar A. Orden

**2023 College
of Agriculture
and Food
Science (CAFS)
Distinguished
Alumni Award**

University of the
Philippines Los Baños
Alumni Association,
Inc. (UPLBAA)





Pantas Awardee for Most Outstanding Research Administrator

51st founding
anniversary of the
Department of Science
and Technology -
Philippine Council for
Agriculture, Aquatic
and Natural Resources
(DOST-PCAARRD)



Dr. Dana G. Vera Cruz & Dr. Tereso A. Abella

SINAG Awardee - Best Adopter Category

NSAARRD Best Paper Award – 1st Place (Development Category)

51st Founding Anniversary of the Department of Science and
Technology - Philippine Council for Agriculture, Aquatic and
Natural Resources (DOST-PCAARRD)



Dr. Clarissa Yvonne J. Domingo
SINAG Awardee - Best Adopter Category
SINAG Awardee - Best Innovator Category

51st Founding Anniversary of the Department of Science and
Technology - Philippine Council for Agriculture, Aquatic and
Natural Resources (DOST-PCAARRD)

Other Faculty who Received Various Awards

Name	Award	Award Giving Body	Date given
Asst. Prof. Zorille D.C. Villaflores from the Department of Communication and Development Studies (DCDS), Engr. Juderick Poblete from the Intellectual Property Office (IPO) /Department of Environmental Science and Asst. Prof. Justine Trey Cubos from the Department of Social Sciences (DSS).	3rd Place in UPLB CPAF 2nd DIPLAB Policy Hackathon	University of the Philippines Los Baños (UPLB) College of Public Affairs and Development (CPAF)	December 13-14, 2023
Mr. Jose Epimaco R. Arcega and Melchor L. Cuizon, faculty from the Department of Social Science at the College of Arts and Social Sciences (CASS)	Best Paper Award for their paper titled "The Dignity of Work and the Challenge of Artificial Intelligence (AI)"	2023 Societas Ethica Philosophica, Inc. (SEPI) International Conference on Christian Philosophy, Sustainability, & Development	September 28 to 30, 2023
Ms. Karen Jean C. Barcelita, from USHS faculty	1st place with her paper entitled "Recurring Symbols, Motifs, and Images in Literature as Projections of Unconscious Desires, Wounds, or Unresolved Conflicts: A Scientific Viewpoint of Literature in Understanding Human Unconsciousness."	2023 National Organization of Science Teachers and Educators (NOSTE) International Research Conference, Training Workshops, and Biennial Convention with the theme "Science as a Tool for Teaching Numeracy and Literacy"	September 22 to 24, 2023
Dr. Emmanuel M. Vera Cruz, faculty-researcher from the College of Fisheries (CF) and Freshwater Aquaculture Center (FAC) together with his advisee, CLSU alumna Dr. Paloma D. De Chavez, Dean of the College of Fisheries and Aquatic Sciences, Marinduque State College	Outstanding Scientific Paper Award	45th National Academy of Science and Technology (NAST) Annual Scientific Meeting	July 12-13, 2023

Name	Award	Award Giving Body	Date given
Assistant Professor Resty Ruel V. Borjal from the College of Arts and Social Sciences (CASS)	Best Paper award for his groundbreaking research on the environmental and technological implications of the COVID-19 pandemic	22nd Asian Bioethics Conference & Roundtable Discussion on Global Health Security	May 17, 2023
Dr. Ericson N. Dela Cruz	Pagasa Award by the Civil Service Commission (CSC) Region III	CSC Region III	May 19, 2023
"Isothermal Amplification-based Biosensor for Early-Warning Intervention Against Rice Blast," was led by Dr. Rubigilda Paraguison-Alili and Dr. Maria Excelsis M. Orden, with Jeshua Paul P. Antonino, Renmar M. Dela Cruz, Aldrin M. Corpuz, Dan Charlie Joy Pangilinan, and Carl Vincent D. Gapasin as members.	Best Scientific poster under the Agricultural Sciences Category	Department of Science and Technology National Academy of Science and Technology (DOST-NAST)	45th Annual Scientific Meeting of the held last July 12-13, 2023 at The Manila Hotel, Manila.

Students Awards, Recognitions & Achievements

Students who received recognitions from reputable award-giving bodies/professional organizations

Name	College	Award	Awarded by
Angie Lynne Salonga	College of Science	3rd place for the Best Poster Presentation	Mycological Society of the Philippines on June 23, 2023
Loraine Galvan	College of Business Administration and Accountancy	Agri-Biz Model Young Farmers Challenge	Department of Agriculture
Ashley Mae Carpio Allena Jane Luna Jeanella V. Rojo Joel Miles Alejandro	College of Fisheries	Top positions in the essay writing contest and photography contest,	60th FishCon Week

CLSU sent students to attend various competitions and bagged awards in different fields of expertise. This is the University's commitment to encouraging its students to be well-rounded, aside from their academic path, by actively participating in extracurricular activities.

Name	College	Award	Awarded by
Drexter Escobar Princess Sherina Cunanan Xyryl Lynx Doctor	College of Veterinary Science and Medicine	2nd runner-up in the 30th National Veterinary Quiz Contest (NVQC)	UP Venerable Knight Veterinarians (VKV) Fraternity
Drexter Escobar	College of Veterinary Science and Medicine	Champion in Individual Round in the 30th National Veterinary Quiz Contest (NVQC)	UP Venerable Knight Veterinarians (VKV) Fraternity

Name of Students	Degree Program/Year Level	Place/Rank	Name of Inter School	Sponsor
Emmanuele Correa; Jenyl Corpuz, Austin Pe-ips Padua	BAFIL 4	Best Presenter; Best Abstract	Taguig City University 1st International Research Conference on Multidisciplinary Studies for Scientific Writing 2023	Taguig City University, NPRES and Research Synergy Foundation
Nheil Aldrin Esguerra	BSBA - MKTG 3	Part of Top 15 National Finalist	Agora Youth Awards Search for Outstanding Marketing Student of the Year	Philippine Marketing Association
Ma. Ericka Romano	BSBA - MKTG 3	Top 9		
Reymark Collado	BSBA - MKTG 3	Top 1		
Rz Angel De Guzman	BSBA - MKTG 3	Top 1		
Mary Rose Morales	BSBA - MKTG 4	Top 1		
Sherlyn Pascual	BSBA - MKTG 4	Top 1		
Kenneth Aldrin Vera	BSBA - MKTG 3	Top 1		
Jose Wilfredo Santiago	BSABE	1st Place Undergraduate thesis presentation oral category	PSABE-PPG	PSABE
Gemima Kate Guttierrez	BSABE	2nd place Undergraduate thesis presentation oral category	PSABE-PPG	PSABE
Princess Rojas	BSABE	3rd Place Salakot Painting Contest	PSABE-PPG	PSABE
Gwendalyn MARIe Orzame and Jose Wilfredo Santiago	BSABE	2nd place ABEDiorama Contest	PSABE-PPG	PSABE
Alliah Irish De Guzman	MS	Best Presenter Award	2023 University Consortium Graduate Forum	UC, SEARCA and Maejo University
Maren T. Tomas	USHS	3rd Best Oral Presenter	2023 International Research Conference, Training Workshops and Biennial Convention	National Organization for Science Teachers and Educators, Inc. (NOSTE, Inc.)
Maren T. Tomas, Edward Johanne Y.Quilang, Kristine Cassandra L. Dabu, and Rion Fauszt O. Bustos		3rd Best Research Paper		

Name of Students	Degree Program/Year Level	Place/Rank	Name of Inter School Competition Participated In	Sponsor
Michael Vincent Valdez	BCAED4	3rd Place Pop Solo	Culture and Arts Festival	CLSU Cultural Affairs Office
Reyjie Perez, and Alrish Shane Toledo	BCAED3	Champion Pop Duet		
Grace Angela Sta. Ines	BSABE	Recipient	Regional III SUC	DA RFO III
Christian Palomo, and Joshua Lazaro	BS Hospitality Management	Champion	Philippine Culinary Cup	Phil-Can EduCon, CHED IKSCM
Daryl Abaco, and Chatelyn Placido		Bronze	16th Annual Hotel, Restaurant and Tourism Week and 14th National Food Showdown	Hotel and Restaurant Association of Baguio (HRAB)
		Silver		
Jerane Ernani	BSCHEM 2	Gold Taekwondo	SCUAA 2023	CLSU
Vladimir Cruz	DVM4	Silver Medalist - Badminton	2023 National SCUAA	CLSU
Harvey Josh Fernandez	BSDC 2	2nd Best Profile Feature Story, 4th Best Profile Feature Writer	14th Annual National Media Conference and 1st International Media Research Conference	School Press Advisers Movement Inc.
Michael Yanga	BSDC 4	2nd Best Profile Feature Story Competition	14th Annual National Media Conference and 1st International Media Research Conference	School Press Advisers Movement Inc.
Romelyn T. Pispis	BSAC4	3rd Place	PICPA REGIONAL COMPETITIVE ACCOUNTING QUIZ	PICPA
Margelyn Claudette N. Bambilla	BSED 2 - MATH	Champion Short and Sweet Play Dialogue	Culture and Arts Association of State Universities and Colleges Region III (CAASUC III)	Culture and the Arts Association of State Universities and Colleges in Region (CAASUC III)
May Yzabelle Arenas	CLTL-ASTS Grade 11	1st Place Swimming Competition	2023 Division athletic Meet	Division of Munoz
CLTL ASTS Baseball Team (M)	CLTL-ASTS Grade 9 and 11 students	1st Place Baseball Competition	2023 Division athletic Meet	Division of Munoz
Aprilene D. Angeles	MSAE	Best Review Submissions Award	DOST-ERDT	Marikina Hotel and Convention Center
Alliah Irish R. De Guzman	MSAE	People's Choice Award	DOST-ERDT	Marikina Hotel and Convention Center
Marc Joel Malaca	BSIT 4	3rd Best Poster	4th International Research Conference on Technology, Engineering, Culture, and Society	IRConTECS 2023

Name of Students	Degree Program/Year Level	Place/Rank	Name of Inter School Competition Participated In	Sponsor
Jectopher C. Meting	BSHM 2	1st Runner up	Culture and the Arts Association of State Universities and Colleges in Region (CAASUC) III	Culture and the Arts Association of State Universities and Colleges in Region (CAASUC) III
Vianca Cabigting	BS BIO4	Gold	Pop Vocal Duo, CAASUC III 2023	Culture and the Arts Association of State Universities and Colleges in Region (CAASUC) III
Anfernee Joshua Barlis	BS Math 1	3rd Place	27th Philippine Statistics Quiz National Finals	PSA
		Champion	27th Philippine Statistics Quiz Regional Finals	PSA
Ma. Clarita Isabelle Guevarra	BSBA Econ 4	2nd Best Profile Feature Story Competition, 2nd Best Profile Feature Photographer	14th National Campus Media Conference and 1st International Media Research Conference	School Press Advisers Movement Inc.
Steven John Collado	BSED 4	2nd Best Profile Feature Story Competition, 5th Best Profile Feature Layout Artist	14th National Campus Media Conference and 1st International Media Research Conference	School Press Advisers Movement Inc.
Kate Agustin	BSBIO 3	6th place Backpack Journalism (English)	14th National Campus Media Conference and 1st International Media Research Conference	School Press Advisers Movement Inc.
Winchester Santos	BSCE 3	8th place Opinion Writing (Filipino)	14th National Campus Media Conference and 1st International Media Research Conference	School Press Advisers Movement Inc.

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Vice President for Administration (Until December 16, 2023)

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Director, Animal Production Division

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