

CAGAYAN  
STATE UNIVERSITY

# Annual Report 2021



**CAGAYAN STATE  
UNIVERSITY**



# CAGAYAN STATE UNIVERSITY

## *Vision*

Cagayan State University is a University with global stature in the arts, culture, agriculture and fisheries, the sciences as well as technological and professional fields.

## *Mission*

Cagayan State University shall produce globally competent graduates through excellent instruction, innovative and creative research, responsive public service and productive industry and community engagement.

## *Core Values*

### **Competence**

Critical Thinker  
Creative Problem -Solver  
Competitive Performer: Nationally, Regionally and Globally.

### **Social Responsibility**

Sensitive to Ethical Demands  
Steward of the Environment for Future Generations  
Social Justice and Economic Equity Advocate.

### **Unifying Presence**

Uniting Theory and Practice  
Uniting Strata of Society  
Unifying the Nation, the ASEAN Region and the world  
Uniting the University and the community.

#### **ANNUAL REPORT 2021**

Office of the University President

University Information Office

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Caritan Sur, Tuguegarao City, Cagayan Valley 3500 Philippines

ISSN 2704-3215

# Executive Summary

Powered by its mission to provide quality education, Cagayan State University continues to soar high to keep up with the rapidly changing world. CSU remains a powerhouse of quality higher education in Region 02 with flexibility and ingenuity in its arm.

CSU is known as the Top 3 Performing School in the September 2021 Registered Electrical Engineering Board Examination and Top 2 Performing School in the September 2021 Registered Master Electrician Licensure Examination. It also produced national toppers in the board examination for Respiratory Therapy, Teacher Education, Electrical Engineers, Master Technicians, Human Resource Associates, and Electronics Technicians. The university produced physicians internationally during the India's Foreign Medical Graduate Examination, an evidence that the CSU academic performance is both locally and globally strong.

CSU is a 3 Star University awarded by the QS Stars Rating System garnering 5 stars in the core criteria of Teaching, Academic Development, Inclusiveness, and Employability. It is also recognized by the AACUP as the Top 2 Performing SUC with the Highest Number of Level 1 Accredited Programs in 2021 and the Top 5 Performing SUC with the Highest Number of Level II Accredited Programs in 2021.

Cagayan State University was able to publish 43 research articles in International Refereed Journals in 2021 (see table in research). It also generated a research fund of less than 100 million pesos from different partner agencies to mobilize its research initiatives. Partner Funding Agencies include the Department of Science and Technology, Department of Environment and Natural Resources, Department of Agriculture, Department of Interior and Local Government, Department of Social Welfare and Development, Department of Trade and Industry, and Commission on Higher Education.

On the other hand, the extension arm of CSU had garnered more than 10 Million pesos of external funds from partner agencies for Calendar Year 2021 which enabled the actualization of extension services and projects that are both pandemic responsive and community-driven.

As proof to its innovative core, CSU was able to produce "SUNBERRY", the first food supplement product of the university. It is a product of research between CSU and DOST through the authorship of DOST Balik Scientist Prof. Maria Nilda M. Muñoz.

CSU continues to strengthen its Research and Development centers to produce more research and innovations that are in service to the community. CSU's existing research and development centers are the Electromobility Center, Food Innovation Center, Metals

Engineering and Innovation Center, Coffee Processing Center, Swine Production Facility, Dairy Processing Center, Tuklas Lunas Center, Cacao Processing Center, and Coconut Gene Bank.

CSU, that cradles The CSU Bamboo Sanctuary is also a main supplier of bamboo propagules in the region. Supplying more than 90 thousand propagules since 2020 to government and non government entities, the university also provides training services in the propagation and production of bamboo here and in nearby provinces.

Recognizing the call towards the internationalization of higher education institutions, CSU was able to ink a series of memorandum of agreement with foreign universities across the Southeast Asia region. Recent international partners include Universiti Teknologi Mara and UNITAR International University in Malaysia, Universitas Muhammadiyah Sumatera Utara in Indonesia, National Taiwan Ocean University in Taiwan, and St. Mary's University in Canada.

As a first step to international collaboration, CSU hosted its first ever virtual International Conference on Futures Thinking together with our international and national partners, with an aim to have a stronger internationalization program for the University.

CSUans also reaps the benefits of our international efforts as 3 of our students were recent recipients of the Canada-ASEAN Scholarships and Educational Exchanges Development (SEED) Program which enabled the selected CSUan scholars the opportunity to experience Canadian education at St. Mary's University, Halifax Nova Scotia, Canada.

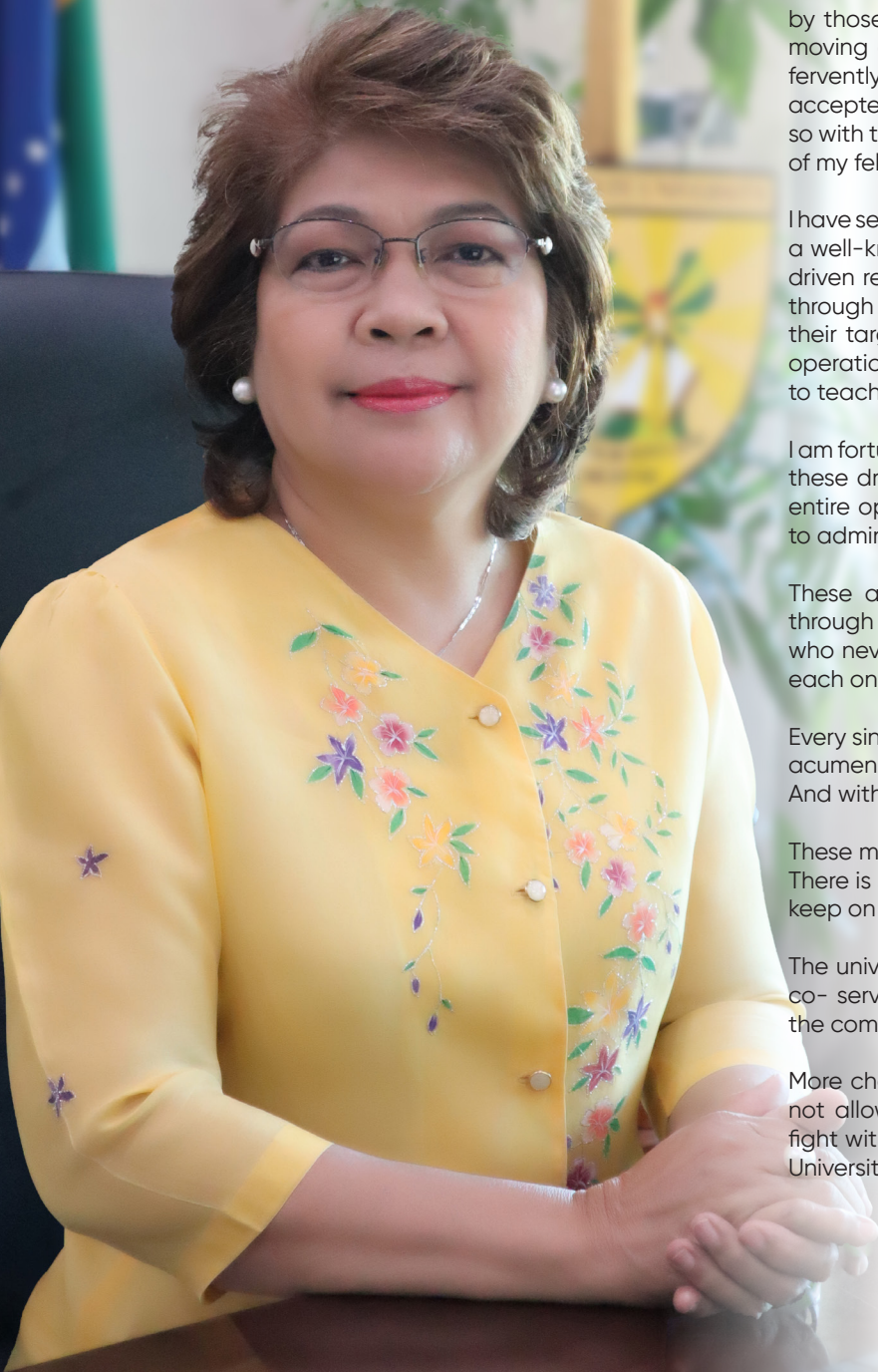
CSU also partnered with the Supreme Court of the Philippines which designated CSU as a Bar Testing Site for the 2020/2021 Bar Examination, bringing the Bar Exam closer to home for aspiring Cagayano lawyers.

In a quest to extend the accessibility of CSU education to the region, CSU is set to open its 9th campus, the CSU-Solana Campus, which is located in Iriga. The Senate of the Philippines passed the House Bill sponsored by Congressman Jojo Lara that converts the Solana Extension Campus into a regular campus.

Through the support of Senator Pia Cayetano, CSU has also acquired less than 190 million pesos in external funds for academic ventures. This brings the promise of new facilities and benefits for the CSU student community in the future.

Resilient and persistent in achieving excellence, CSU leads stronger than ever... all because of the hard working men and women of CSU who made all this achievements possible... and the inspiration behind all these efforts, the CSU student body and the entire Cagayano community.

# MESSAGE OF THE PRESIDENT



For five years now, it has been my privilege to lead the Cagayan State University community... to share in its triumphs and travails, to be buoyed by its successes and weighed down by its disappointments. But always, I have found comfort and solace in the members of the CSU community, the Board of Regents who have accepted my leadership and have so generously and unstintingly bestowed what is best for the university.

It would be hypocritical for me to say that I have not been bothered by those who have persisted in vexing CSU's determined efforts at moving on. But in the faith that there is a spark of nobility in all, I fervently hope that very soon it shall be clear to them that when I accepted the collar of my presidential office, for the second time, I did so with the sole intent of devoting these years of my life to the service of my fellow Cagayanos through the Cagayan State University.

I have seen the immense potential of CSU to reach great heights, to be a well-known university for its quality of instruction and community-driven research. I dreamed for the university and with the university through my co-administrators who remained zealous in meeting their targets, the staff who relentlessly worked towards an efficient operation, the roster of faculty members who remained dedicated to teaching, and the students who were passionate about learning.

I am fortunate to see this academic community thrive as one. We took these dreams by heart through planning ahead, assessing first the entire operation from programs to individual activities, from faculty to administrative support and financial and physical resources.

These accomplishments are fruits of labor not by me alone but through the concerted efforts of CSU's hardworking men and women who never stopped dreaming with me. CSU is what it is because of each one of you.

Every single accolade the university received is also attributed to the acumen, sensibility, leadership and hard work of our past Presidents. And with all humility, I offer these achievements to them.

These milestones are just the beginning, we still have more to attain. There is still more that CSU is bound to accomplish in the future. We keep on dreaming and achieving as one academic community.

The university is generally performing well – thanks to all of you my co-servants of government, our students and our stakeholders in the community.

More challenges, problems and disappointments await. But we will not allow these tribulations to dampen our spirit. We continue to fight with the tenacity to achieve one advocacy for Cagayan State University... that is to transform lives by educating for the very best.

URDUJAH G. ALVARADO  
University President

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# INSTRUCTION

## CONDUCT OF FACULTY ENHANCEMENT AND CAPABILITY BUILDING PROGRAMS

Number of faculty who attended the Webinar-Workshop on Interactive Module Development

Campus	Participants
Andrews	126
Aparri	31
Carig	28
Gonzaga	43
Lallo	41
Lasam	22
Piat	53
Sanchez Mira	59
<b>Total</b>	<b>403</b>

The Office of the Vice President of Academic Affairs (OVPA) in cooperation with the Office of the Director for Online Learning (ODOL) and the Office of the Director of Instruction (ODI) conducted a webinar-workshop on Interactive Module Development for Outcome-Based Education last February 1, 2, 4, 5, and 8, 2021. The webinar aimed to capacitate faculty members to develop lessons using different online tools to make classes in LENS more interesting and interactive. Dr. Gigid T. Battung, the Director of ODOL, served as the resource person.

A total of 403 faculty members coming from the different campuses were trained during the virtual workshop on the rudiments of interactive module preparation. Outputs of the participants can be viewed in the LENS of each campus.

## PERFORMANCE IN LICENSURE EXAMINATION

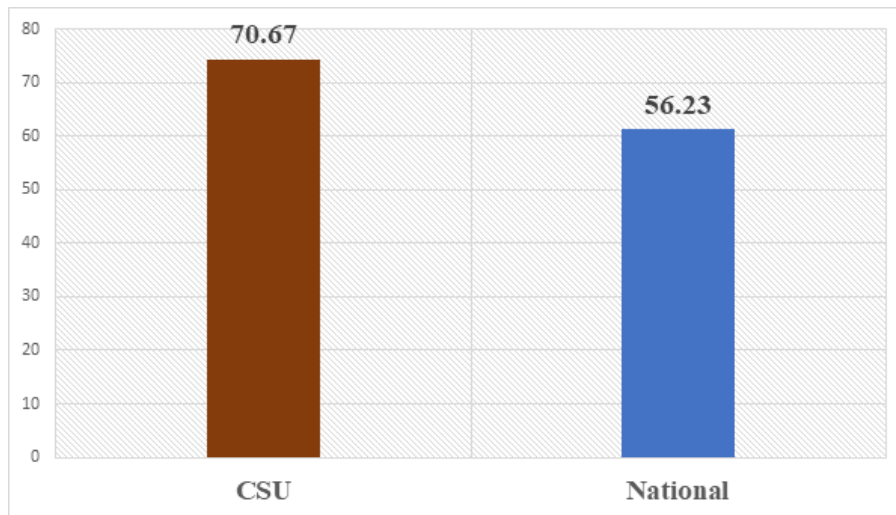
Physical Accomplishment of CSU on Licensure Examination (First-Time Takers), Academic Year 2021

Institution	Physical Target	Physical Accomplishment
Cagayan State University	50%	70.67%

The CSU performance along Licensure Examination with emphasis on first time takers exceeded the physical target. The physical accomplishment was 70.67% which is higher than the physical target of 50%.

Average passing rate of CSU on Licensure Examination, Academic Year 2021, compared to national passing rate

	Total First Time Takers	Total First Time Passers	Average Passing
CSU	941	665	70.67
National	42,569	23,937	56.23
<b>Average Passing % of SUC/National Average Passing</b>			<b>126%</b>



Average passing rate of CSU and national passing rate in the Licensure Examination for Academic Year 2021.

The Figure reveals that CSU performed well in the 2021 licensure examination despite the pandemic. The performance of CSU is 126% higher than that of the national passing average. This is contributed only by takers from programs who were able to participate in the licensure examination as shown in Table 4 below. Further, it can be gleaned in the table that performance in nine (9) programs was higher than the national passing rate.

**CAGAYAN STATE UNIVERSITY**  
COLLEGE OF ALLIED HEALTH SCIENCES

***Congratulations!***

to the **123** passers of  
**January 2021 Medical Technologists**  
**Licensure Examination.**

**INSTITUTIONAL PASSING RATE**  
**97.62**

**NATIONAL PASSING RATE**  
**67.69**

*We are so proud of you!*

**CAGAYAN STATE UNIVERSITY**

***Congratulations***

to the passers of October 2021  
**Certified Public Accountant Licensure Exam**

**Keyzel Tumaliuan Cabison, CPA**      **Jan Kay Codina, CPA**

**Angelika Collado, CPA**      **Edilberto Saddul, CPA**

**Julio Ceazar Sedano, CPA**

**15.25%**  
National  
Passing Rate

**50%**  
Institutional  
Passing Rate

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Comparison of CSU Performance with National Performance, Academic Year 2021

<b>Name of Licensure Examination</b>	<b>No. of First-Time Takers</b>	<b>No. of First-Time Passers</b>	<b>Institutional Passing Average</b>	<b>National Passing Average</b>	<b>Date of Release</b>
Agriculturist Licensure Examination	67	17	25.37	35.30	November 18, 2021
Chemical Engineer Licensure Examination	19	11	57.89	51.45	October 11, 2021
Certified Public Accountant Licensure Examination	7	3	42.86	12.55	October 19, 2021
Electronics Engineer Licensure Examination	7	2	28.57	79.03	November 4, 2021
Fisheries Technologist Licensure Examination	8	3	37.50	32.08	October 13, 2021
Licensure Examination for Teachers-Elementary	9	7	77.78	56.37	November 29, 2021
Licensure Examination for Teachers-Secondary	337	221	65.58	61.04	November 29, 2021
Medical Technologist Licensure Examination	180	161	89.44	70.33	February 8, 2021 March 25, 2021
Physician Licensure Examination	95	72	75.78	80.21	March 19, 2021 September 24, 2021 November 11, 2021
Registered Electrical Engineer Licensure Examination	55	48	87.27	72.95	September 16, 2021
Registered Master Electrician Licensure Examination	58	54	93.10	72.72	September 16, 2021
Respiratory Therapist Licensure Examination	50	46	92	78.69	March 15, 2021
Veterinarian Licensure Examination	49	20	40.82	52.56	February 10, 2021 September 8, 2021

It is also worthy to note that because of the pandemic the conduct of review classes was not pushed through for some programs while some reviewees became ill with COVID which could account for the few examination takers.

Moreover, due to the pandemic the 2021 licensure examination for the following programs was cancelled: 1.) Guidance and Counseling; 2.) Psychology; 3.) Criminology; and 4.) Civil Engineering.



## CSU BOARD TOPNOTCHERS



CSU National Board Topnotchers, Academic Year 2021

Name	Licensure Examination	Rank	Rating
Clarisse Althea Adduru	January 2021 Medical Technologist Licensure Examination	17	25.37
Tom Kairo Pacquing	January 2021 Medical Technologist Licensure Examination	11	57.89
Albright Dew Baua	January 2021 Medical Technologist Licensure Examination	3	42.86
Jessa Castañeda	March 2021 Respiratory Therapist Licensure Examination	2	28.57
Abigail Santanilla	March 2021 Respiratory Therapist Licensure Examination	3	37.50
Czendra Faye Compares	September 2021 Licensure Examination for Teachers	7	77.78

Another feat that CSU has accomplished for Academic Year 2021 is that it is once again able to produce national board topnotchers. As in the previous years, topnotchers were recorded in 3 licensure examinations, namely, Medical Technologists, Respiratory Therapists, and Teachers.

Number of developed instructional materials from June 2020 to July 2021

	Instructional Materials		
	Published	Completed/Unpublished	On-Going
<b>TOTAL</b>	<b>22</b>	<b>508</b>	<b>10</b>

With respect to instructional material development, the campuses reported their accomplishment as shown in Table above. CSU Lallo has produced the most number of instructional materials as of July 2021. CSU Aparri, however, reported 22 published IMs. CSU Carig reported 10 IMs which are in progress.

# Faculty Development

Faculty Members who Obtained Master's and Doctorate Degrees, Academic Year 2021



**CADATAL, LORETA**  
Ph.D. in Education major in Educational Management



**GUIQUING, FERDINAND**  
Doctor in Information Technology



**TUNGCU, MIGNONETTE**  
Doctor in Information Technology



**AQUINO, JOSE ANTONIO MIGUEL**  
Master of Business Administration



**DAGUIAO, MARK KLEWIN**  
Master in Public Health



**GUINUCUD, JAYBIE**  
Master of Business Administration



**GUINUCUD, RACHELLE**  
Master of Business Administration



**TABAO, MARK JOHN**  
Master of Arts in Physical Education



**TABAO, KRISTEL JOY**  
Master of Arts in Physical Education



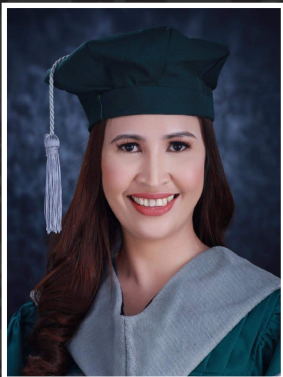
**PACQUING, NIKKO ALEXANDER**  
Master in  
Public Health



**GALABAY, MINERVA**  
Ph.D. in Education major in  
Educational Management



**LACAMBRA, CIRILO, JR.**  
Doctor in Information  
Technology



**ONTIVEROS, MARIE KHADIYA**  
Doctor in Information  
Technology



**MARTINEZ, MELCHOR**  
Master of Science in  
Hospitality Management



**ORTEZA, GLAIZA**  
Master of Science in  
Hospitality Management



**MIRANDA, SALVADOR**  
Master in Fisheries  
major in Aquaculture



**AYUNON, CHIRBET**  
Ph.D. in Education major in  
Applied Linguistics



**LAVADIA, MICHAEL**  
Master of Arts in  
Physical Education



**CORPUZ, ANGELICA**

Master in Engineering major in  
Food Engineering and Bioprocess  
Technology



**SANTOS, MARY ANN**

Master in  
Public Health



**ALIBANIA, CLYDEN CHARL**

Ph.D. in Education major in  
Educational Management



**DAMASCO, GIRLIE**

Master of Business  
Management



**SIMPLICIANO, JANET**

Master of Business  
Management



**ISNEC, MARISSA**

Ph.D. in Education major in  
Educational Management



**CASCO, RAQUEL**

Master of Arts in Education  
major in Filipino



**SAWADAN, ROLDAN**

MST in Agriculture Major in  
Agricultural Science



**SORIANO, MICHELLE**  
Ph.D. in Education major in  
Educational Management



**TAPIA, AIZA**  
Master of Science in  
Teaching major in TLE



**BAYUBAY, MOREN**  
Master of Science in Agriculture  
major in Crop Science



**ESTABILLO, JOEMEL**  
Master of Arts in Technology  
Education major in TLE/HELE



**GENOBILI, RODEL**  
Master of Science in  
Information Technology



**BAUTISTA, ELIZABETH**  
Ph.D. in Education major in  
Educational Management

Number of faculty who earned their graduate degree in Year 2021

Campus	Degree		Total
	Doctorate Degree	Master's Degree	
Andrews	4	7	11
Aparri	3	3	6
Carig	2	2	4
Gonzaga	1	2	3
Lallo	1	2	3
Lasam	1	1	2
Piat	-	3	3
Sanchez Mira	1	-	1
<b>Total</b>	<b>13</b>	<b>20</b>	<b>33</b>

Source: Report of Campus Academic Coordinators

Despite the pandemic, faculty members still pushed through with their professional development along graduate studies. Table 7 shows the 33 faculty members who earned their advanced education degrees in 2021. Thirteen (13) Doctorate Degree holders and twenty (20) Master's Degree holders are now added to the pool of competent CSU faculty. Of the total graduates, 25 are regular faculty and 8 are part-time / Contract of Service.

Number of faculty scholars, Year 2021

Campus	Scholarship	
	Doctorate Degree	Master's Degree
Andrews	5	-
Aparri	3	-
Carig	11	1
Gonzaga	6	-
Lallo	3	4
Lasam	11	-
Piat	7	2
Sanchez Mira	12	1
<b>Total</b>	<b>58</b>	<b>8</b>

68 faculty members were enjoying scholarship grants either from CHED or CSU, of which 58 are in doctorate while 8 are in master's degree.

## CSU FACULTY PROFILE

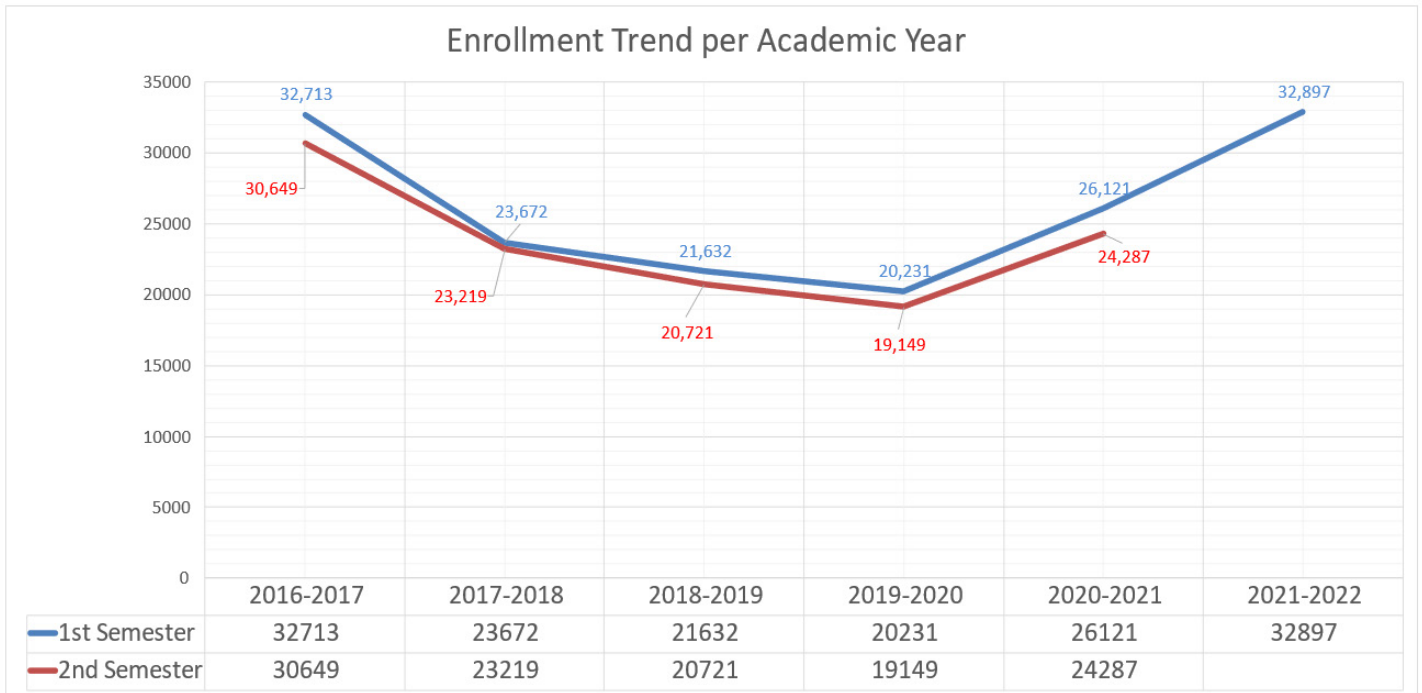
Faculty Members based on RANK as of December 31, 2021

RANK	CAMPUS								TOTAL
	Andrews	Aparri	Carig	Gonzaga	Lallo	Lasam	Piat	Sanchez Mira	
Instructor I	71	24	77	19	18	10	26	27	<b>272</b>
Instructor II	3	1	4		1	2		2	<b>13</b>
Instructor III	13	2	7	5	2	2	4	2	<b>37</b>
Assistant Professor I	11	4	16	1	2		4	2	<b>40</b>
Assistant Professor II	16	2	17		1	1	3	2	<b>42</b>
Assistant Professor III	10	3	7	3	1	1	2	3	<b>30</b>
Assistant Professor IV	9	7	13	1	4		2	2	<b>38</b>
Associate Professor I	6	6	15	5	1	2	2	1	<b>38</b>
Associate Professor II	13	3	8	5	3	4	2	2	<b>40</b>
Associate Professor III	14	2	9	1	1	2	3	2	<b>34</b>
Associate Professor IV	7	5	8	2			3	1	<b>26</b>
Associate Professor V	7	3	17	2	2		3	6	<b>40</b>
Professor I	6	2	9	2	2		1		<b>22</b>
Professor II	4	1	2					1	<b>8</b>
Professor III	5	1	4				1	2	<b>13</b>
Professor IV		2	1						<b>3</b>
Professor V	1		1						<b>2</b>
Professor VI	1								<b>1</b>
University Professor	1								<b>1</b>
<b>TOTAL</b>	<b>198</b>	<b>68</b>	<b>215</b>	<b>46</b>	<b>38</b>	<b>24</b>	<b>56</b>	<b>55</b>	<b>700</b>

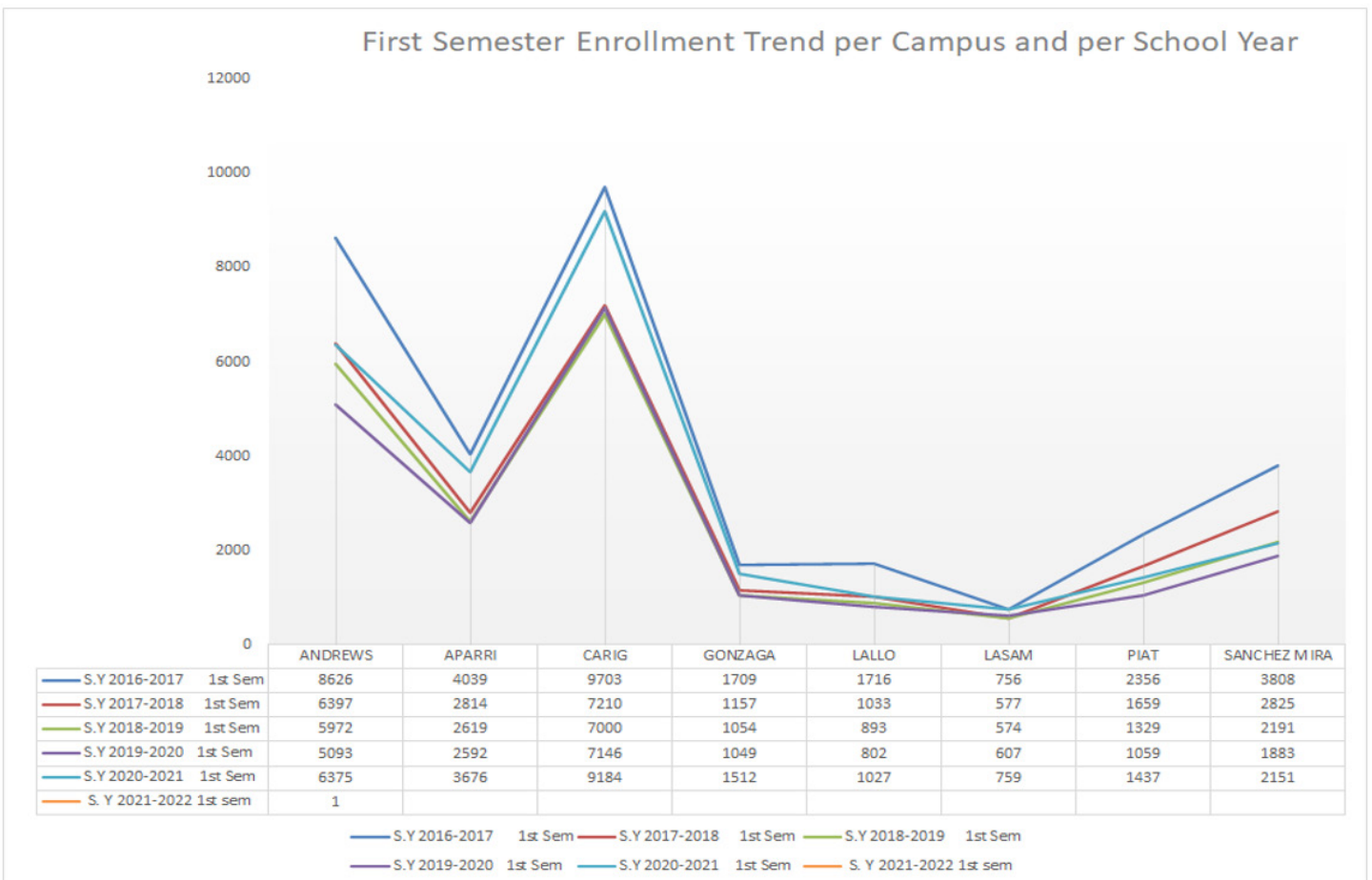
Source: Human Resource Management Office

As of December 2021, there are 700 faculty members holding regular plantilla items and the breakdown is shown in Table 10 above. CSU Carig has the most number of faculty followed by CSU Andrews. The university-wide faculty profile is shown in Figure 3 below. Of the 700 faculty members, 46% are occupying the ranks of Instructor while 22%, 25% and 7% are occupying Assistant Professor, Associate Professor and Professor ranks, respectively.

## ENROLLMENT TREND



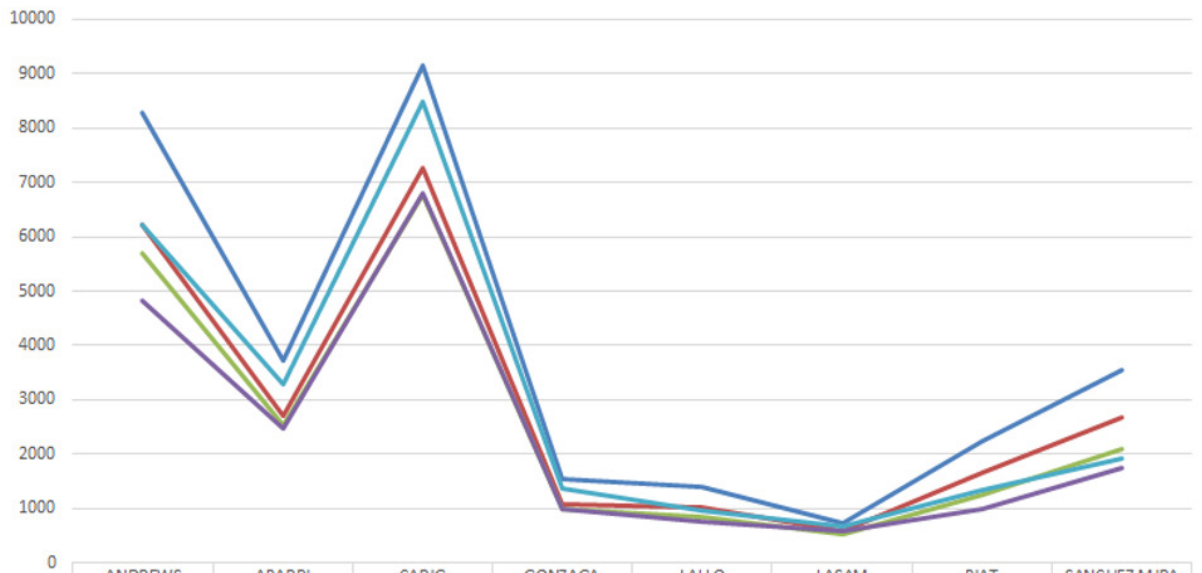
A significant rise in the enrollment is expected as the adjustment period for K-12 students is ending. All year levels are now populated.



Enrollment Trend per Campus (First Semester)



Second Sem Enrollment Trend per Campus and per School Year



		ANDREWS	APARRI	CARIG	GONZAGA	LALLO	LASAM	PIAT	SANCHEZ MIRA
—	S.Y 2016-2017 2nd Sem	8299	3729	9164	1552	1396	722	2231	3556
—	S.Y 2017-2018 2nd Sem	6210	2715	7279	1085	1019	571	1653	2687
—	S.Y 2018-2019 2nd Sem	5705	2523	6761	990	856	537	1267	2082
—	S.Y 2019-2020 2nd Sem	4819	2460	6810	987	764	572	992	1745
—	S.Y 2020-2021 2nd Sem	6234	3297	8493	1356	959	669	1349	1930

— S.Y 2016-2017 2nd Sem — S.Y 2017-2018 2nd Sem — S.Y 2018-2019 2nd Sem — S.Y 2019-2020 2nd Sem — S.Y 2020-2021 2nd Sem

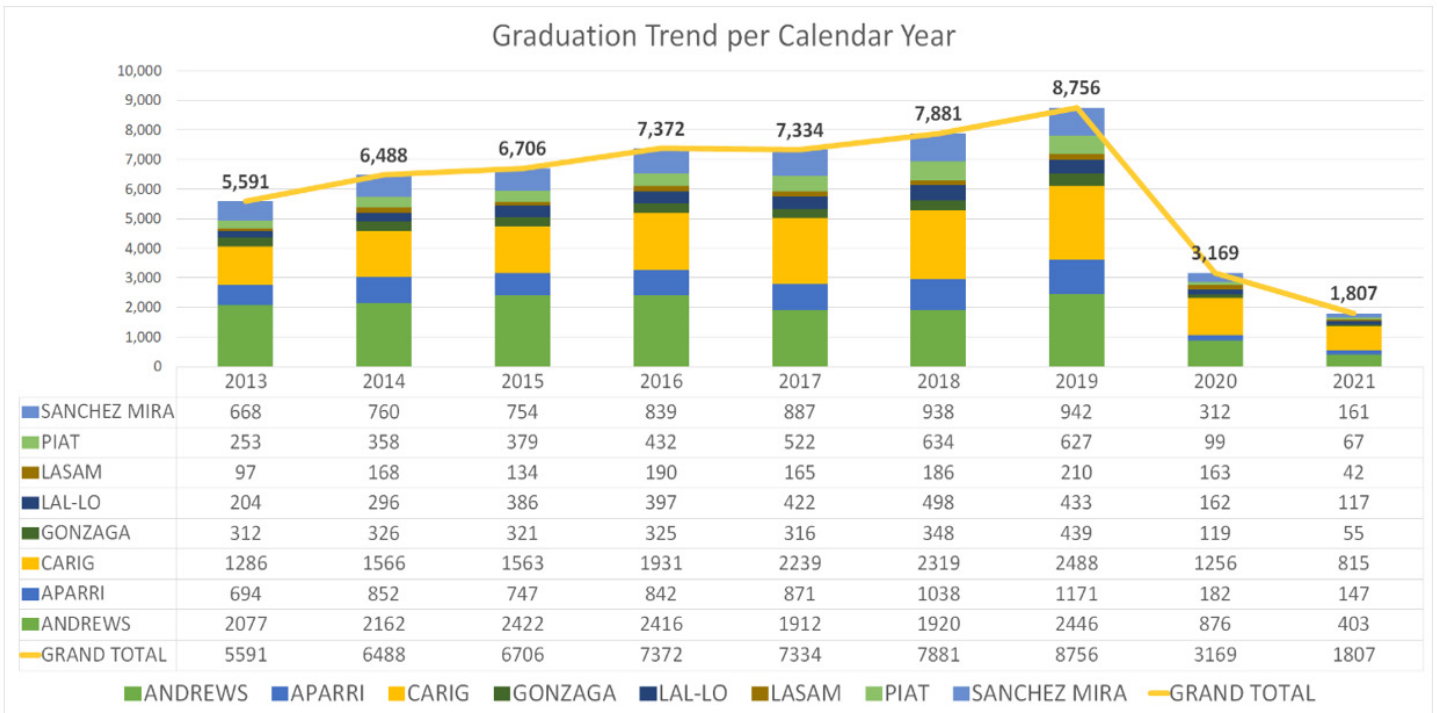
Enrollment Trend per Campus (Second Semester)



# GRADUATION TREND



Graduation Trend per Calendar Year



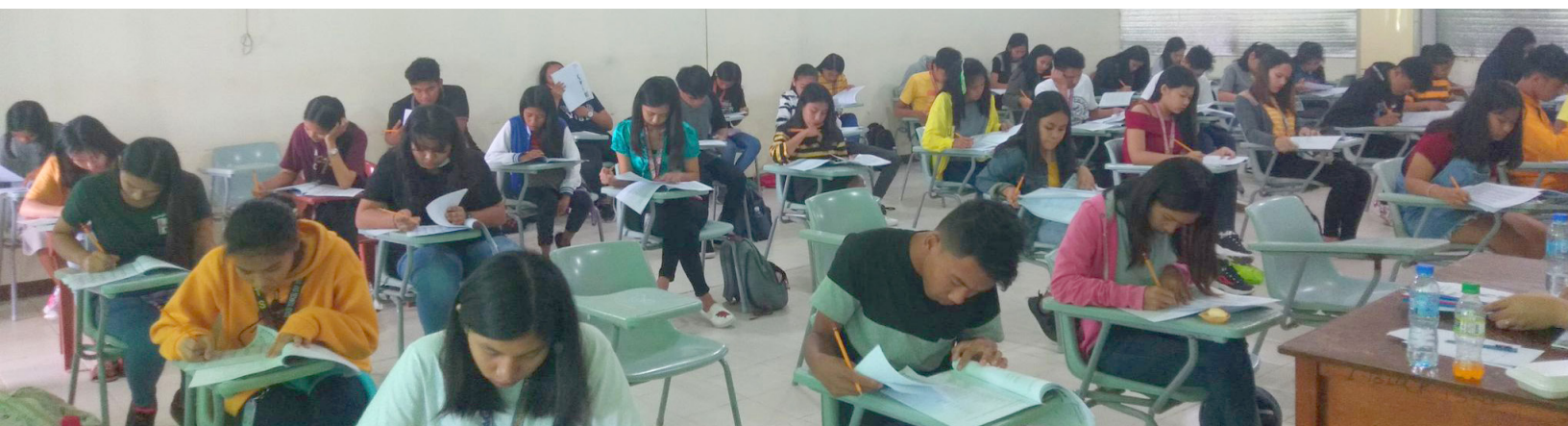
The two last calendar years with the least number of graduates are the effect of the transition period for K-12 students. For the next calendar year 2022, the number of graduates are expected to rise as the 4th year and 5th year students (graduating students) are now populated.

## ADMISSION

Task/ Activity	Expected Date of Completion	Status
1. Registration of Freshmen Applicants for School year 2021-2022	January 3 – June 25, 2021	Completed
2. Assessment and Evaluation of Student-Applicants	January – June 2021	Completed
3. Upgrading of the system for Online Application	August to October 2021	Completed
4. Start of Online Application for Admission of Incoming College Freshmen for schoolyear 2022- 2023	November 2021	On-going

Summary Of Student-Applicants For School Year 2021-2022

Campus	Number of Student-Applicants	Number of Admitted Applicants	Percentage of Admitted Applicants	Percentage of Admitted Students per Campus (Based on the number of applicants per campus)
Andrews	5,384	2,151	12	39.9
Aparri	2,150	1,506	8.7	70
Carig	5,577	3,494	20	62.6
Gonzaga	697	608	3.5	87
Lal-lo	780	648	3.73	83
Lasam	343	261	1.5	76
Piat	894	570	3.3	63.8
Sanchez Mira	1,537	725	4.18	47
<b>Total</b>	<b>17,362</b>	<b>9,963</b>	<b>57</b>	



# ADMINISTRATION AND FINANCE



## ADMINISTRATION

President Urdujah Alvarado entered into the second year of her renewed appointment as President of the Cagayan State University, charging the meetings of the Board of Regents in accordance with the provisions of Republic Act 8292 that make her the Vice-Chair of the governing boards.

## MEETINGS OF THE BOARD OF REGENTS

Notices of all these meetings and the agenda were supplied the Chair-Designate from the Commission on Higher Education, but owing to the intransigence of CHED Chair Prospero de Ver III and his refusal to recognize the re-appointment of President Urdujah Alvarado, the Chair-Designate recused themselves from participation. This did not deter the Board of Regents from making decisions and enacting measures necessary for the continued operations of the university.



## STAFFING PATTERN

In accordance with CSC PRIME HR, an endeavor of the Civil Service Commission on human resources and meritocracy, the university strictly adhered to the principles and rules for the engagement, appointment and promotion of teaching and non-teaching personnel.

Besides the public announcement of vacancies (where the rules require this), qualified members of the faculty particularly for medicine and medical allied sciences, as well as for the College of Law and the Graduate School were sought out and invited to join the professorial corps.

The NBC 461 system of promotions met with some glitches particularly because of CHED's insouciance and its mishandling of the affair. Under the Conditional Veto of the President to the Budget of 2021, implementation of the 7th Cycle of NBC 461 was conditioned on guidelines to be released jointly by DBM and CHED. What came forth from CHED were confusing signals and garbled issuances that made it impossible to determine who would be promoted under the system. Confounding this was the fact that zonal centers of the Philippine Association of State Universities and Colleges proceeded to produce print-outs of supposed promotions under the NBC 461 7th cycle that only compounded the confusion.

President Urdujah Alvarado exercised her discretion under the Presidential Discretion (Institutional Promotion) scheme provided for by the rules to cause upward movement of deserving faculty members on the basis of set criteria, generally following the CCE and QCE point system of NBC 461. Considering however that professors with designations would never have been able to garner the points necessary for promotion through no fault of their own but by reason of their designations – which often demanded all of their time – modifications had to be introduced into the criteria for promotion that included (a) innovations introduced (b) systems developed (c) procedures devised.



## **OPERATIONS MANUAL**

To standardize and to institutionalize procedures relating to Administration and Management, the Office of the Vice-President for Administration and Finance produced an operations manual showing the flow of different operations related to administration, management and finance.

These operations were lifted from the relevant manuals of the university already approved by the Board of Regents as well as from established practices supported by relevant memoranda and orders of the office of the President.

## **USE OF THE FINDINGS OF INTERNAL AUDIT**

The administration has made use of the Internal Audit Service of the university to spot glitches, choke-points as well as divergences from laws and rules. While IAS generally proposes the audit agenda for the year, the Office for Vice-President and Administration and Finance has on different occasion directed IAS to conduct audit of particular operations and funds, an including of the Vice-President of Administration and Finance himself.

## **THE DELAY IN THE RELEASE OF UNIFAST FUNDS**

Under Republic No. 10931, UNIFAST responds to the costs of tuition fees and miscellaneous fees of all students covered by free tuition and miscellaneous fees. However, Mr. De Vera, in an attempt to pressure the university into submission to his position of rejecting the second term of President Alvarado, caused a delay of one year in the release of the tuition and miscellaneous fees due the Cagayan State University, compelling the university to subsist on Fund 01, its General Fund alone – and we not only survived, we flourished.

Ultimately, after having been warned by the relevant Senate Committee, in particular Senator Sherwin Gatchalian, Mr. de Vera authorized the release of the funds.

## **INCOME GENERATION IN THE CAMPUSES**

On account of the designation by the University President, Urdujah G. Alvarado, of niche programs for all campuses, each campus has become an income-generating center, advancing the product of its niche industry.

While we are still some distance away from supporting university operations from income-generating projects, it is indeed promising that these income-generating projects are now self-sustaining and even contribute to financial needs of the campuses that espouse them.

## **SERVICE PROVIDERS**

Complementing the regular employees of the university were persons hired under Contracts of Service. This remained necessary because the regular employees were unable to discharge all functions demanded by university operations.

Consultants engaged by the university were contracted because of their expertise in the experimental sciences (Dr. Nilda Munoz), in extension and production design and management (Dr. Florentina Dumlao) and presently, Fr. Ranhilio Aquino, for operations, management and legal affairs.

# Agency Performance

## BUDGET UTILIZATION RATE

EXPENSE CLASS	ALLOTMENT	OBLIGATIONS	%	DISBURSEMENTS	%
PS	658,344,950	655,652,952	99.59%	650,077,467	99.15%
MOOE	115,350,926	109,638,330	95.05%	104,658,935	95.46%
CO	122,534,000	101,238,725	82.62%	22,814,347	22.54%
<b>Total</b>	<b>896,229,876</b>	<b>866,530,007</b>	<b>96.69%</b>	<b>777,550,749</b>	<b>89.73%</b>

## ALLOTMENT, OBLIGATIONS, AND DISBURSEMENTS

PROGRAM/STRUCTURE	ALLOTMENT	OBLIGATIONS	%	DISBURSEMENTS	%
GASS	427,608,949.12	147,543,842	99.95%	145,495,747	98.61%
STO	25,795,074	25,795,033	99.27%	25,766,308	100%
HED	657,195,873	634,147,000	95.90%	559,710,070	87.46%
ADVED	14,776,165	13,662,662	92.46%	13,495,462	98.78%
RESEARCH	44,968,635	39,504,554	87.85%	27,206,245	68.87%
EXTENSION	5,881,716	5,876,916	99.92%	5,876,916	100%
<b>Total</b>	<b>896,229,876</b>	<b>866,530,008</b>	<b>96.69%</b>	<b>777,550,749</b>	<b>89.73%</b>

# Total MOOE and Capital Outlay

## BUR - PBB

EXPENSE CLASS	BUDGET	UTILIZATION	%
MOOE	109,638,330.03	104,658,935.23	95.46%
CO	101,238,725.10	22,814,346.90	22.54%
<b>Total</b>	<b>210,877,055.13</b>	<b>127,473,282.13</b>	<b>60.45%</b>

## EARMARKED INCOME

FUNDED SOURCES	RECEIPTS	EXPENDITURES	%
REVOLVING FUND	45,699,589	26,736,762	58.51%
RETAINED INCOME FUND	389,198,875	279,888,581	71.91%
CUSTODIAL FUND	319,276,284	164,598,600	51.55%
<b>Total</b>	<b>754,174,748</b>	<b>471,223,943</b>	<b>62.48%</b>

# RESEARCH & DEVELOPMENT



The Research and Development (R&D) Annual Report presents information on the R&D activities undertaken during Calendar Year 2021. The report provides evidence that Cagayan State University is fulfilling its duty to promote the university's research culture and meet its targets as indicated in the National Expenditure Program (NEP), SUC Levelling, and the CSU Medium Term Development Plan 2019 – 2022.

CSU is tasked to lead in the conduct of discipline-based, policy-oriented, technology-directed, and innovative/creative research programs, projects and activities aligned with the Harmonized National Research Agenda. Every research project conducted, either institutionally or externally funded, has a goal to support the university's research agenda and campus niche programs. These achievements have been quantified across several indicators. The quality of research has also been focused on by encouraging publications in accredited peer-reviewed journals (CHED- accredited, ACI, Thomson Reuters, and Scopus).

Despite having less budget than the previous year, there is a significant increase in the number of conducted researches due to grants from external funding, General Appropriations Act (GAA) and the Supplemental Budget (SB) from Fund 164 of the University and the continuous capability building program that supported researchers to manage and conduct their researches.



## ACCOMPLISHMENT BASED ON NEP

Table 1 presents the physical accomplishment of the Research and Development Office against the National Expenditure Program (NEP) target for CY 2021. Regarding the Outcome Indicators (Number of research outputs in the last three years utilized by the industry or by other beneficiaries), CSU was able to produce 15 research outputs utilized by the beneficiaries in the last three years as against the target of 13.

For the Output Indicators, Indicator number 1 (Number of research outputs/ studies completed within the year), there were 58 completed research outputs accomplished against the target of 50.

Moreover, Output Indicator No. 2 (Percentage of research outputs published in internationally refereed or CHED recognized journal within the year), CSU targeted to publish 13 out of the 50 (25%) completed researchers and the University was able to publish 42 (72.41%) research outputs in international refereed journals and CHED Accredited Journals. The Physical target and the Physical Accomplishment has a variance of +47.41%.

Physical accomplishment report

Particulars	UACS CODE	Physical Targets					Physical Accomplishment					Variance	Remarks
		1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter	Total	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
RESEARCH PROGRAM <i>Outcome Indicators</i> 1. Number of research outputs in the last three years utilized by the industry or by other beneficiaries	303000000	2	3	4	4	13	2	3	4	6	15	+2	
<i>Output Indicators</i> 1. Number of research outputs/studies completed within the year		10	15	15	10	50	10	15	15	18	58	+8	
2. Percentage of research outputs published in internationally refereed or CHED recognized journals within the year		4% (2/50)	6% (3/50)	8% (4/50)	8% (4/50)	25% (13/50)	12.07% (7/58)	15.52% (9/58)	6.90% (4/58)	37.93% (22/58)	72.41% (42/58)	+47.41% +29	

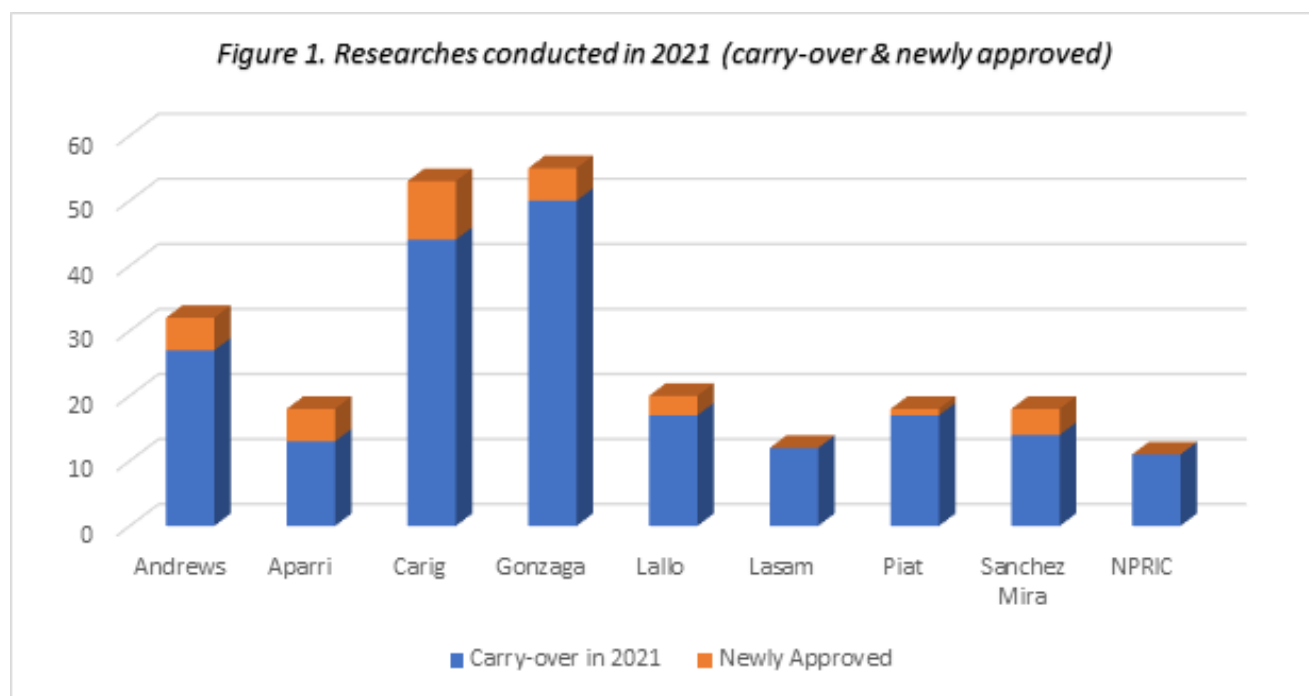
## RESEARCH & DEVELOPMENT PROGRAMS/PROJECTS IMPLEMENTED

In 2021, a total of 237 researches (on-going and completed) were conducted using funds from three sources; 61 from External Funds (39 carryover researches and 22 newly implemented research projects), 89 (80 carryover and nine newly approved) from General Appropriations Act (Fund 101) and 87 (86 carryover and one newly approved) researches from Supplemental Budget (Fund 164). Said researches were anchored along with R&D's thematic agenda on Food Security and Safety, Health and Nutrition, Engineering, Industry and Energy, ICT, Environment and Climate Change, Business and Entrepreneurship, Law and Governance, Education and Social Sciences.

Out of the 237 external and institutional researches conducted, 58 were completed, and 178 are ongoing and will be carried over in 2022. CSU Gonzaga had the highest number of researches conducted (55), followed by CSU Carig (53), CSU Andrews (32), CSU Lallo (20), CSU Sanchez Mira and CSU Piat (18), CSU Aparri (18), CSU Lasam (12) and the least is CSU NPRIC with 11 researches conducted.

Total number of researches implemented, CY 2021

	CARRY OVER 2021				NEWLY APPROVED				GRAND TOTAL
	EXTERNAL	INSTITUTIONAL		TOTAL	EXTERNAL	INSTITUTIONAL		TOTAL	
		GAA (FUND 101)	FUND 164			GAA (FUND 101)	FUND 164		
<b>TOTAL</b>	<b>39</b>	<b>80</b>	<b>86</b>	<b>205</b>	<b>22</b>	<b>9</b>	<b>1</b>	<b>32</b>	<b>237</b>



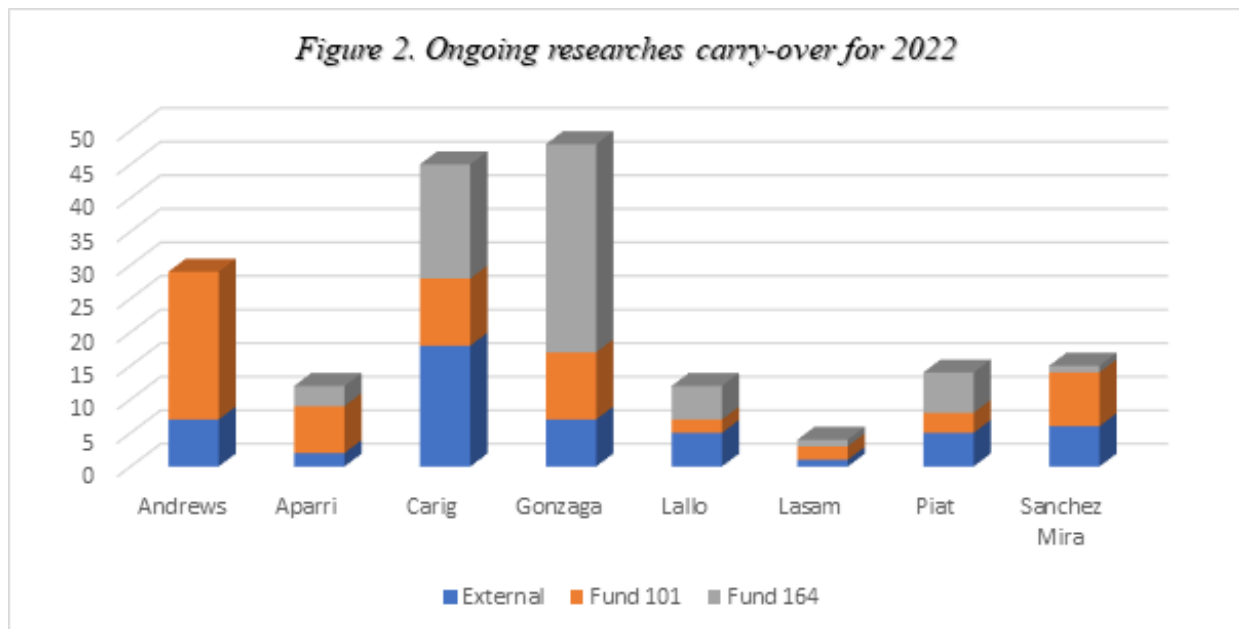
As seen in Figure 1 (Researches conducted in 2021 (carryover & newly approved), CSU Gonzaga has the highest carry over in 2021 and CSU NPRIC have the lowest carry over in 2021. Moreover, CSU Carig has the most newly approved researches in 2021.

## ON-GOING RESEARCHES

Table below shows the number of ongoing researches (carry over and newly approved in 2021) to be carried over for CY 2022. A total of 179 on-going researches were implemented in 2021 with CSU Gonzaga(48) having the most number of on-going researches implemented, followed by CSU Carig (56), CSU Andrews (29), CSU Sanchez Mira (15), CSU Piat (14), CSU Lallo and CSU Aparri (12), and CSU Lasam (4) having the least number of researches carried over for 2022.

Number of On-going Researches carryover for 2022

CAMPUS	CARRY OVER 2021			TOTAL
	EXTERNAL	INSTITUTIONAL		
		GAA (FUND 101)	FUND 164	
Andrews	7	22		29
Aparri	2	7	3	12
Carig	18	10	17	45
Gonzaga	7	10	31	48
Lal-lo	5	2	5	12
Lasam	1	2	1	4
Piat	5	3	6	14
Sanchez Mira	6	8	1	15
<b>TOTAL</b>	<b>51</b>	<b>64</b>	<b>64</b>	<b>179</b>



As seen in Figure 2 (On-going Researches for 2021), CSU Gonzaga has the highest carry over research for 2022, and CSU Lasam has the lowest carry over research for 2022.

## COMPLETED RESEARCHES

There were 58 researches completed in 2021, of which, 10 were externally funded (carry over), 25 were funded from the GAA (carry over and newly approved) and 23 were funded through Fund 164.

Number of completed researches by campus and fund source, CY 2021

CAMPUS	TOTAL NO. OF RESEARCHES IMPLEMENTED IN 2021	EXTERNAL	INSTITUTIONAL		TOTAL	
			GAA (FUND 101)	FUND 164	NUMBER COMPLETED	PERCENTAGE COMPLETED
Andrews	43	2	12		14	32.56%
Aparri	18	1	3	2	6	33.33%
Carig	53	4	1	3	8	15.09%
Gonzaga	55	2	1	4	7	12.72%
Lal-lo	20		2	6	8	40%
Lasam	12		3	5	8	66.67%
Piat	18	1	1	2	4	22.22%
Sanchez Mira	18		2	1	3	16.67%
<b>TOTAL</b>	<b>237</b>	<b>10</b>	<b>25</b>	<b>23</b>	<b>58</b>	<b>24.47%</b>

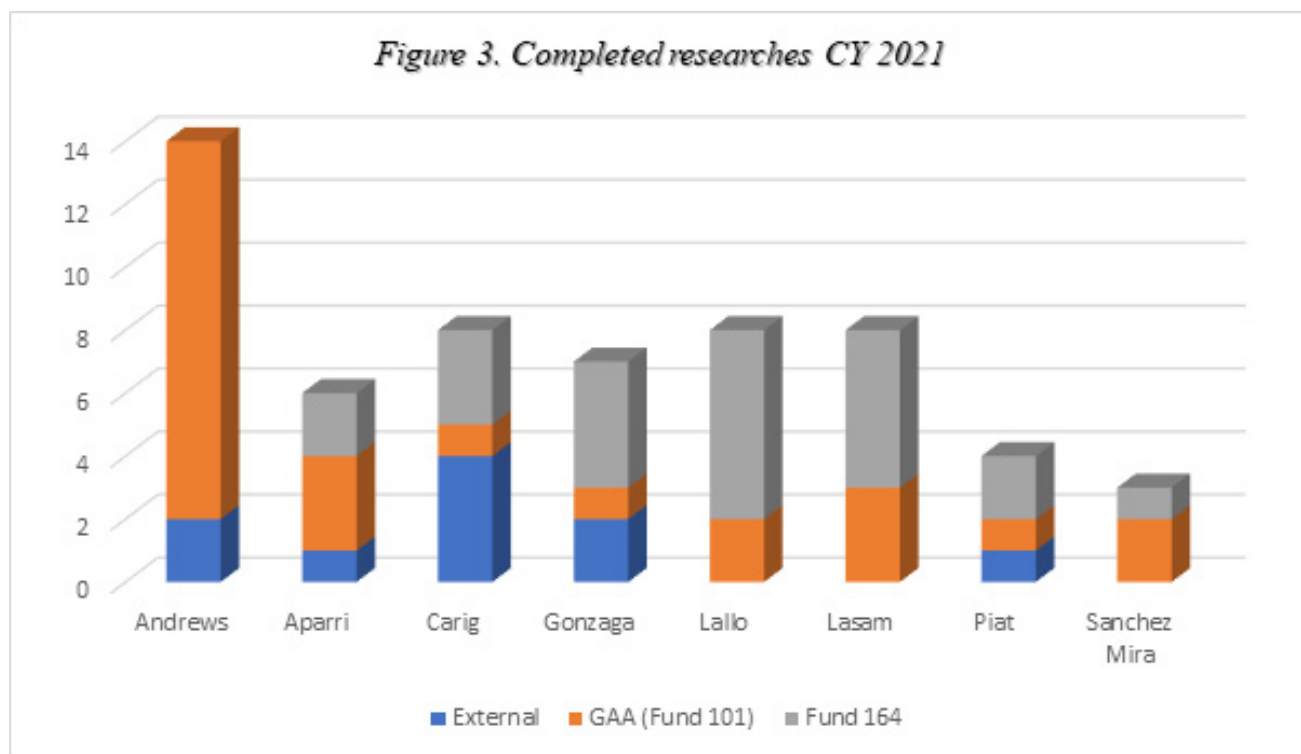


Figure 3 (Completed Researches CY 2021), shows that CSU Andrews had the most completed researches (14) in 2021. On the other hand, CSU Sanchez Mira has the least completed researches (3).

## REVIEW AND EVALUATION OF RESEARCH PROPOSALS

In 2021, a total of 124 proposals passed through reviews and evaluation by a panel of evaluators before being approved for external and institutional funding. Proposals submitted for external and institutional funding increased as young researchers from the different campuses became more active in doing research. A total of 17 proposals were submitted to external funding agencies, and 107 proposals were submitted for institutional funding. Out of the 124 proposals evaluated, 77 were approved for institutional funding and 12 for external funding.

Number of Proposals Reviewed in 2021

Campus	For External Fund			For Institutional Fund			Grand Total evaluated
	Approved	Not approved	Total No. evaluated	Approved	Not approved	Total No. evaluated	
Andrews	4	2	6	1	23	24	30
Aparri	2	1	3	3	15	18	21
Carig	9	0	9	1	28	29	38
Gonzaga	3	0	3	1	24	25	28
Lal-lo	3	0	3	0	10	10	13
Lasam	0	1	1	0	9	9	10
Piat	1	0	1	0	28	28	29
S. Mira	0	1	1	4	4	8	9
<b>TOTAL</b>	<b>22</b>	<b>5</b>	<b>27</b>	<b>10</b>	<b>142</b>	<b>151</b>	<b>178</b>

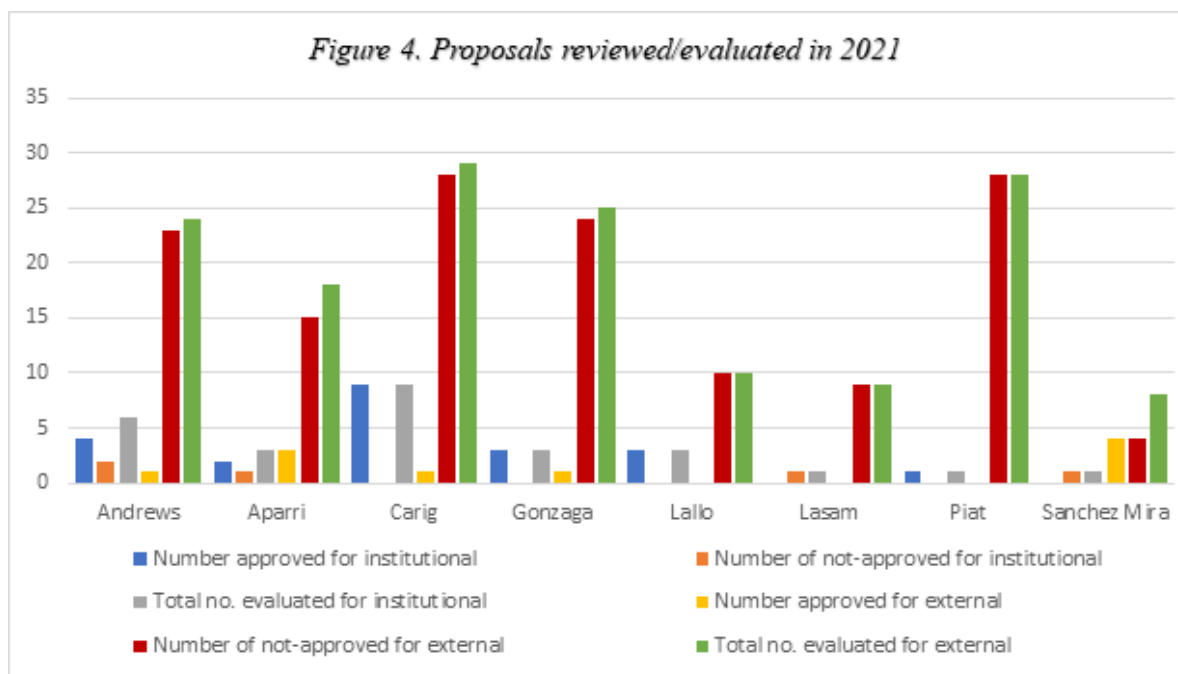


Figure 4 (Proposals reviewed/evaluated and approved) shows that CSU Carig (29) has the most reviewed/evaluated proposals in 2021 for institutional funding and CSU Sanchez Mira (8) has the least.

For external funding, CSU Carig has the most proposals submitted for evaluation (9) in 2021.

In terms of proposals approved for external funding, CSU Carig has the most proposals approved (9), and CSU Lasam and CSU Sanchez Mira has no proposals approved for external funding.

## COMPLETED RESEARCHES

CAMPUS	TITLE OF AWARD	TITLE OF RESEARCH/PAPER	FACULTY AWARDEE
Andrews	Outstanding Performance in Leading the DARETO K-12 Team	CHED-DARETO K-12 Research Project: Predictors of College Readiness of Senior High School Graduates: Input for Curriculum Alignment, Transition Interventions and Admission Policy/	Antonio I Tamayao
Andrews	Outstanding Technology Transfer Award	Mechanical and Functional Properties of Concrete Made of Eggshell Powder and Tatty-ragged Towel for Novelty Pot Development	Dr. Jhoanna B. Calubaquib
Andrews	Outstanding Researcher for 2020	Predictors of College Readiness of Senior High School Graduates: Input for Curriculum Alignment, Transition Interventions, and Admission Policy - Academic Profile and College Preparedness of K-12 Graduates: The Case of Indigenous Peoples in Northern Philippines	Dr. Rudolf T. Vecaldo
Andrews	3rd Place Best paper (Social Category)	Knowledge, Attitudes, Beliefs, Practices and Challenges of Frontliners During the COVID-19 Pandemic: A Retrospective Study	Jennifer L. Luyun
Andrews	1st Place Best paper (Social Category)	Unraveling the Narratives of Frontliners in Cagayan Province During the COVID-19 Pandemic: A Phenomenological Analysis	Jay Manuel Asuncion
Andrews	2nd Place Best paper (Social Category)	Structural Equation Model (SEM) Analysis on College Readiness Among Filipino K-12 Graduates	Antonio I. Tamayao
Andrews	Oral Presenter 3rd Place	Assessment of the Core Shelters in Tuguegarao City/	Jinky Marie Chua
Andrews	Oral Presenter 1st Place	Wound healing Activity of Ointment infused with Aqueous Extracts of <i>Donax cannaeformis</i> and <i>Chlorophytum comosum</i> var. <i>variegatum</i> /	Jinky Marie Chua
Andrews	Poster Presenter 2nd Place	Evaluation of <i>Equisetum hyemale</i> and <i>Euphorbia hirta</i> leaf extracts in increasing platelet count of Sprague Dawley Rats/	Jinky Marie Chua
Andrews	Outstanding Technology Transfer	Mechanical and Functional Properties of Chicken Eggshell-Based Concrete for Garden Pot Development/Outstanding Technology Transfer	Jhoanna B. Calubaquib

CAMPUS	TITLE OF AWARD	TITLE OF RESEARCH/PAPER	FACULTY AWARDEE
Andrews	Oral Presenter 3rd Place	Determination of Insecticide Residues in Eggplant ( <i>Solanum melongena esculentum</i> ) and Okra ( <i>Abelmoschus esculentus</i> ) Grown in Mabini, Baggao, Cagayan/	Gail Ann P. Pascual
Andrews	Outstanding Researcher	CHED-DARETO K-12 Research Project: Predictors of College Readiness of Senior High School Graduates: Input for Curriculum Alignment, Transition Interventions and Admission Policy/	Rudolf T. Vecaldo
Andrews	1st place Best Paper	Processed Snack Foods: their Vitamin and Mineral Composition and Percentage Contribution to the Recommended Nutrient Intakes (RNI) of School Children	Milagros Suyu, Jhoanna Calubaquib
Andrews	2nd Place-Best Paper	Structural Equation Model Analysis on College Readiness Among Filipino K-12 Graduates	Antonio I. Tamayao, Rudolf Vecaldo
Carig	Best Presenter	Linking College Learners' Competence in Information and Communication Technology and Learning Styles during the COVID-19 Pandemic	Bryan M. Nozaleda
Carig	1st place-best paper	E-trike Deployment and Utilization Study	Arthur G. Ibañez, Generino Siddayao, Florentina Dumlao, Denis Policar
Carig	3rd Place-best paper	Demonstration of Electric Vehicle Fast Charging Station	Audy Quebral, Arthur G. Ibañez, Florentina S. Dumlao
Carig	1st Place	Managing the Food Innovation Center for Food Security (under FIC project)	Florentina S. Dumlao
Carig	1st Place	Sea Wonder Nagkayasan ( <i>Chaetomorpha crassa</i> ) Extract Vaseline Based Antiseptic Ointment.	Andy Catulin
Carig	2nd Place	Cagayan Island Endemic Flora its Phytochemical and Hypoglycemic Effect on Alloxan Induced Sprague Dawley Rat	Andy Catulin
Lasam	2nd Place-best paper	Cacao Biomass for renewable Biochemicals	

## R&D Outputs Dissemination

Research outputs/results are disseminated through presentations in scientific conferences/fora, agency in-house reviews, and/or symposium. Another way of disseminating research outputs is through the extension programs of the University where technologies developed are transferred to target adopters of the technology.

### A. Research Outputs Presentations in Conferences/Fora/Symposium

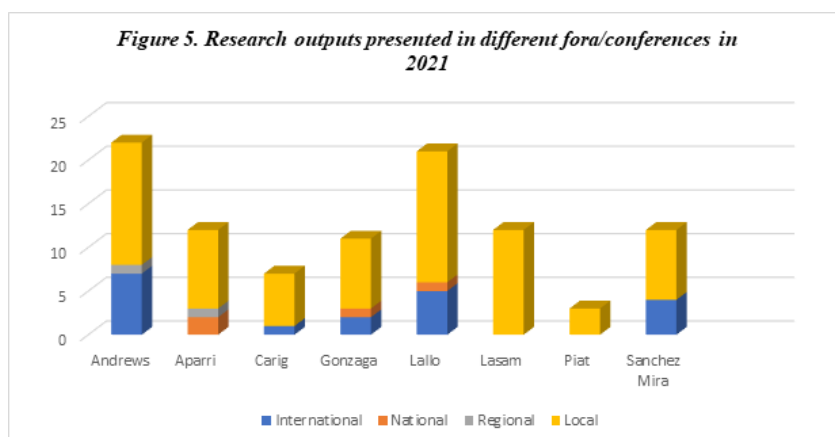
For CY 2021, the R&D Office was able to present a total of 100 research outputs in international, national, regional, and local conferences. A total of 19 papers were presented internationally, 4 papers for national, 2 papers for regional, and 75 papers were presented in local fora.

The campus with the most number of papers presented in international fora / conferences is CSU Andrews (7), followed by CSU Lallo (5), CSU Sanchez Mira (4), CSU Gonzaga (2), CSU Carig (1), and CSU Aparri, CSU Lasam, and CSU Piat has none.

CSU Aparri (2) and CSU Gonzaga, and CSU Lallo (1) have papers presented in the national level. Moreover, CSU Andrews and CSU Aparri (4) have papers presented in the regional, while the CSU Lallo has the most number of papers presented locally. (Table 8 and Figure 5).

Number of research outputs presented by level and by campus, CY 2021

CAMPUS	INTERNA-TIONAL	NATIONAL	REGIONAL	LOCAL	TOTAL
Andrews	7		1	14	22
Aparri		2	1	9	12
Carig	1			6	7
Gonzaga	2	1		8	11
Lal-lo	5	1		15	21
Lasam				12	12
Piat				3	3
Sanchez Mira	4			8	12
<b>TOTAL</b>	<b>19</b>	<b>4</b>	<b>2</b>	<b>75</b>	<b>100</b>





## B. Technology Commercialization / Utilized by Other Beneficiaries

Fifteen (15) technologies were adopted/transferred/utilized by other beneficiaries from the research outputs to target adopters. These research outputs were continuously commercialized until the end of 2021. CSU Aparri and CSU Carig has the most technologies commercialized. Such technologies were included in extension projects.

Technologies adopted/ transferred or utilized by other beneficiaries

CAMPUS	NO. OF TECHNOLOGY(IES)	TECHNOLOGY
Andrews	3	<ul style="list-style-type: none"> <li>• Consumers' Rights Awareness</li> <li>• Core Shelters of Tuguegarao City: Project HELP "Risk Assessment of Common Health Problems in Core Shelters of Tuguegarao City"</li> <li>• Quality of K-12 Graduates</li> </ul>
Aparri	4	<ul style="list-style-type: none"> <li>• Tilapia Culture in Pond</li> <li>• Rice fish culture</li> <li>• Process in Making Aramang Doughnut</li> <li>• Process in Making Aramang Cookies</li> </ul>
Carig	4	<ul style="list-style-type: none"> <li>• Process of Producing Mabolo Candy</li> <li>• A Process of Producing Crispy Watermelon Rind</li> <li>• A Process of Producing Ready to Drink Calabash Juice</li> <li>• A Process of Producing Crispy Squash with Lime</li> </ul>
Gonzaga	1	<ul style="list-style-type: none"> <li>• Ariwat Asim Mix Powder Techology</li> </ul>
Lasam	2	<ul style="list-style-type: none"> <li>• Method of biosynthesizing silver nanoparticles for in vitro anthelmintic applications</li> <li>• Wifi-Based Engine Start</li> </ul>
Sanchez Mira	1	<ul style="list-style-type: none"> <li>• Growth and Yield Performance of Pechay (<i>Brassica napus L.</i>) in Hydroponics System as Influenced by Magnetic Field</li> </ul>



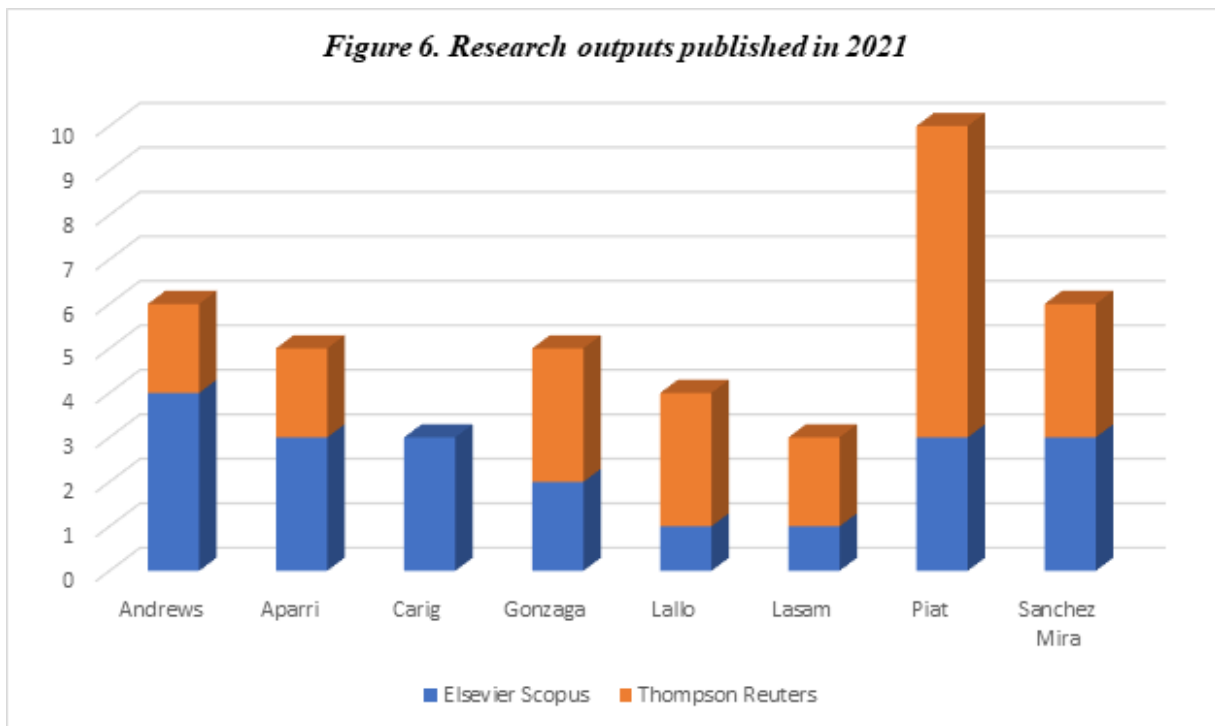
### C. Publication, Citation, and Intellectual Property Application

In 2021, a total of 42 research outputs were published in international refereed journals (Elsevier Scopus & Thomson Reuters) with CSU Piat (10) having the most outputs published, followed by CSU Andrews and CSU Sanchez Mira (6), CSU Aparri, and CSU Gonzaga (5), CSU Lallo (4), and CSU Carig and CSU Lasam (3).

Number of research outputs published, CY 2021

CAMPUS	ELSEVIER SCOPUS	THOMPSON REUTERS	TOTAL
Andrews	4	2	6
Aparri	3	2	5
Carig	3		3
Gonzaga	2	3	5
Lal-lo	1	3	4
Lasam	1	2	3
Piat	3	7	10
Sanchez Mira	3	3	6
<b>TOTAL</b>	<b>20</b>	<b>22</b>	<b>42</b>

Figure 6. Research outputs published in 2021



A total of 47 articles published by CSU Researchers were cited in different articles in refereed international journals or CHED Accredited Journals. Of the 165 citations in International Journals, 64 articles were from CSU Lasam, 53 from CSU Carig, 23 from CSU Andrews, 9 in CSU Aparri, 8 in CSU Sanchez Mira, 5 in CSU Piat, 3 in CSU Lallo, and none from CSU Gonzaga. Table below shows the summary.

Number of Research Articles Cited by Other Researchers in Refereed Journal Articles

CAMPUS	NUMBER OF PUBLICATION CITED	TOTAL NUMBER OF CITATIONS IN ARTICLES PUBLISHED BY OTHER RESEARCHERS IN REFEREED INTERNATIONAL OR CHED-ACCREDITED JOURNAL		GRAND TOTAL
		INTERNATIONAL JOURNAL	CHED ACCREDITED JOURNAL	
Andrews	15	23		23
Aparri	6	9		9
Carig	8	53		53
Gonzaga		0		0
Lal-lo	3	3		3
Lasam	9	64		64
Piat	3	5		5
Sanchez Mira	3	8		8
<b>TOTAL</b>	<b>47</b>	<b>165</b>		<b>165</b>

#### D. Research Outputs Applied for Deposit /Registration

A total of 130 research outputs have been applied for the utility model. Meanwhile, eight utility models were granted while eight research outputs have been applied for Trademark, and 73 have been applied for Copyright.

Number of patents, utility models, and copyrights registration/deposit/applications, CY 2021

Campus	Outputs for Utility Model			Outputs for Trademark			Outputs for Copyright		
	Application	Granted	Registered	Application	Granted	Registered	Application	Granted	Registered
Andrews	27	5		5			33		
Aparri	7						11		
Carig	12	1							
Gonzaga	12			1					
Lal-lo	46			1			5		
Lasam	17	1		1			6		
Piat	4	1					10		
Sanchez Mira	5						8		
<b>Total</b>	<b>130</b>	<b>8</b>		<b>8</b>			<b>73</b>		

## RESEARCH & DEVELOPMENT CAPABILITY BUILDING

To produce high-quality research outputs, the University R&D continuously maintains a critical mass of researchers and experts through an integrated research capability building program to further hone their skills and keep them abreast of the learning curve and draw insights from caliber experts in various disciplines, other areas in research and the like. In 2021, 162 seminars, fora, conferences, trainings, and meetings were attended by R&D researchers in different venues and from varying organizations; 15 of which were international, 53 were national, 45 were regional, and 49 were local.

Moreover, a total of 18 in-house seminars, training workshops, fora, and meetings were conducted in 2021. Most of which were conducted by the RDE Office.

Number of seminars, training, workshops, fora & meetings attended, CY 2021

CAMPUS	INTERNATIONAL	NATIONAL	REGIONAL	LOCAL	TOTAL
RDE Office		12	22	13	47
Andrews	3	5	3	32	43
Aparri		18	8		26
Carig					0
Gonzaga			4		4
Lal-lo					0
Lasam					0
Piat				2	2
Sanchez Mira	12	18	8	2	40
<b>TOTAL</b>	<b>15</b>	<b>53</b>	<b>45</b>	<b>49</b>	<b>162</b>

Number of in-house seminars, training, workshops, fora & meetings conducted, CY 2020

CAMPUS	ELSEVIER SCOPUS
RDE Office-University wide	4
Andrews	3
Aparri	2
Carig	1
Gonzaga	1
Lal-lo	
Lasam	
Piat	6
Sanchez Mira	1
<b>TOTAL</b>	<b>18</b>

## R&D PARTNERSHIP DEVELOPED/ESTABLISHED

Linkages and alliances are important to generate funding or grants for the University. The University R&D also entered into several Memoranda of Agreement and Understanding with other government agencies, NGOs, and other SUCs locally, nationally, and internationally for the conduct of a number of research and development activities and the provisions of technical assistance.

The CSU R&D has collaborated with partner Universities such as UP Los Baños, UP Visayas, and UP Mindanao in the conduct of research in the University.

List of partnership/linkages

CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Andrews	CHED RO2	Research Grant	Predictors of College Readiness of Senior High School Graduates: Input for Curriculum Alignment, Transition Interventions, and Admission Policy
Andrews	CHED-DARE TO	Research Grant	Disaster Resiliency Mapping for Mission – Critical Infrastructure and Investment of State Universities and Colleges (SUC) in the Philippines
Andrews	CVHRDC	Research Grant	Knowledge, Attitudes, Beliefs, Practices, and Challenges of Frontliners During the COVID-19 Pandemic: A Retrospective Study
Andrews	CVHRDC	Research Grant	Unraveling the Narratives of Fontliners in Cagayan Province During the COVID-19 Pandemic: A Phenomenological Analysis
Andrews	CSU TLDC Project: DOST	Research Grant	Non-Toxic Bioactive Plant Extracts from Region 02 for Infection and Pain
Andrews	DOST-PCIEERD	Research Grant	HEIRIT: DOST-Business Incubation Zone for Novel and Sustainable Enterprise (BIZNEST)
Andrews	CSU-DOST-GIA	Research Grant	Program Title: Accelerated R&D Program for Capacity Building of Research and Development Institutions and Industrial Competitiveness: Collaborative Research and Development to Leverage Philippine Economy (CRADLE)  Project Title: Development of Efficient Semiochemical Management Method for Banana Flower Thrips
Andrews	DA	Research Grant	Establishing Baseline Agriculture Performance and Rural Development Indicators in Cagayan Province
Andrews	DOST-CVHRDC	Research Grant	Knowledge and Attitude of Mothers on Vaccination: Its Implication to the Prevalence of Non-Fully Immunized Children in Cagayan Province

CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Andrews	DOST-CVHRDC	Research Grant	Status and Performance of the Disease Surveillance System in the Local Government Units of Cagayan Valley-Region 02
Andrews	DOST - PCIEERD	Research Grant	Program Title: IP Management Program for Academic Institutions Commercializing Technologies (IMPACT)  Project Title: IMPACT: Establishment of the Technology Transfer and Commercialization Management System at Cagayan State University
Andrews	DepEd R02	Research results are valuable inputs for curriculum planning and policy development	CHED DARETO K-12 Research Project
Andrews	J's Pottery	Technology Transfer	Mechanical and Functional Properties of Concrete for Garden Pot Development
Andrews	DTI R02	Research findings are used for policy development	Consumers' Rights Awareness
Aparri	UP-Mindanao	Collaborator	DNA Barcoding Project
Aparri	UP-Visayas	Collaborator	Eel Project
Aparri	Department of Agriculture Laboratory RO2	Technical	Product Development Research project (Tilapia& Surimi)
Carig	Asian Development Bank	Research Grant	Apayao, Abulug River Basin Community Based Flood Risk Management Project
Carig	"SALIKHA" CHED-NCAA	Research Grant	Documentation of Built Heritage in Cagayan Valley
Carig	"SALIKHA" CHED-NCAA	Research Grant	Vernacular and House Construction Methods, Practices, and Beliefs of the Indigenous People (IPs) of Cagayan (Traditional House Construction Methods, Practices, and Beliefs of the Indigenous People (IPs) of Cagayan)
Carig	CHED	Research Grant	CSU University-wide connectivity, library/ research resources, ICT, Managers, and Faculty Retraining Program

CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Carig	DA-R02	Research Grant	Assessment on the Availability, Demand, and Production of Different Rice-based Products from Region 02
Carig	CVHVDP-DA R02	Research Grant	Massive Seeds and Seedlings Production Program
Carig	DA-BAI	Research Grant	Slaughter and Aggregation Point Surveillance to Detect African Swine Flu (ASF) in Cagayan
Carig	DOST-PCIEERD	Research Grant	E-TRIKE: Deployment and Utilization Study
Carig	DOST –PCIEERD	Research Grant	Cagayan Valley Innovation and Product Development (Phase 3)
Carig	DOST-GIA	Research Grant	E-trike Installation and Stability Research
Carig	DOST- GIA	Research Grant	Fabrication of the HITS Equipment Water Retort, Vacuum Fryer, and Cabinet Dryer
Carig	DOST- PCAARRD	Research Grant	Pilot Testing of Peanut Postharvest Mechanization and Bulk Storage Technologies in Selected Regions in the Philippines
Carig	DOST – PCIEERD	Research Grant	Development of Food Product from DOST Developed Food Processing Equipment Utilizing Cagayan Valley Local Resources (Development and Evaluation of Shelf-Stable Ready to Eat Carabao Bitter Stew or Papaitan in Pouch
Carig	DOST-PCAARRD	Research Grant	<p>Program Title: Enhancing productivity and Supply Chain of Banana Industry in Cagayan Valley</p> <p>Project 1 Title: Documentation, Supply Chain Analysis, Production Efficiency and Marketing Analysis of Banana in Cagayan Valley Region</p> <p>Project 2 Title: Occurrence, Distribution, and Symptomatology of Banana Bunchy Top Disease (BBTB) in Cagayan Valley Region</p> <p>Project 3 Title: Rehabilitation and Adaptability Trails of Lakatan and Saba Varieties of Banana in Cagayan</p>
Carig	DOST-PCAARRD	Research Grant	S&T Based Rehabilitation of Damages Caused by Typhoon Ulysses in Cagayan Province

CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Carig	DOST-PCAARRD	Research Grant	Program Title: Enhancing productivity and Supply Chain of Banana Industry in Cagayan Valley  Proj. 1. Documentation, Supply Chain Analysis, Production Efficiency, and Marketing Analysis of Banana in Cagayan Valley Region
Carig	NCCA	Research Grant	Cultural Social –Environmental Dimension of Ibatan Community of Babuyan Claro Island of Cagayan Province: A Documentary Analysis
Carig	DA-BAI	Research Grant	Slaughter and Aggregation Point Surveillance to Detect African Swine Flu (ASF) in Cagayan
Carig	DOST-RO2	Research Grant	Sustainable Use of Squash to Attain Improved Nutrient of E-Nutribution (SUSTAIN E- Nutribun) with HITS equipment at FIC 02
Carig	(GIA Fund)	Research Grant	Program Title: Accelerated R&D Program for Capacity Building of Research and Development Institutions and Industrial Competitiveness: NICHE CENTERS in the Regions for R&D (NICER) PROGRAM: ELECTROMOBILITY R&D CENTER  Project 1: Design, Development, and Fabrication of the Different Parts and Assembly of e-Trike  Project 2: Viability Study of Conversion of Conventional Tricycle to e-Trike and Policy Study
Carig	DOST	Research Grant	Demonstration of Electric Vehicle Fast Charging Station
Gonzaga	DOST - PCIEERD	Source of fund	CESTEEPH
Gonzaga	DENR	Research Grant	Expanded National Greening Program
Gonzaga	DENR	Research Grant	NIPA Project: Assessment of Macro-Faunal Diversity of Nipa Swamps in Aparri, Cagayan, Philippines
Gonzaga	DOST	Source of fund	CESTEEPH
Gonzaga	Good Fellow Pharma	Source of fund	CESTEEPH
Gonzaga	LGU Gonzaga	Source of fund	CESTEEPH
Gonzaga	Sokka Gakkai	Source of fund	CESTEEPH



CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Gonzaga	CSU-DOST	Research Grant	CESTEAPH A Community-based Collaborative undertaking for Sustainable Conservation, Restoration and utilization of Mangrove in Gonzaga, Cagayan and Upgrading of Agri-fishery Products in Cagayan
Gonzaga	DOST-PCAARRD	Research Grant	CESTEAPH Diversity and Habitat Assessment of Mangrove Forest in Gonzaga, Cagayan
Gonzaga	DOST	Financial Support	Capability Building, Livelihood Development, and Environmental Protection for Climate Change Vulnerable Coastal Communities in Buguey, Cagayan Amidst Pandemic project
Gonzaga	DOST	Financial Support	Production and Utilization of 'Bamcoal' bamboo-based fertilizer and evaluation of its plant-soil-nutrient profile, photosynthetic and growth effects, and salinity stress alleviation in lowland variety of head lettuce
Gonzaga	DOST-RO2	Research Grant	<p>Program Title: Production and utilization of 'BamCoal' bamboo-based fertilizer and evaluation of its plant-soil-nutrient profile, photosynthetic and growth effects, and salinity stress alleviation in lowland variety of head lettuce</p> <p>Study 1: Formulation of "BamCoal" bamboo-based fertilizer: a potential soil conditioner for vegetable production</p> <p>Study 2: Photosynthetic and growth response of BamCoal fertilizer in lowland head lettuce (<i>Lactuca sativa</i> L. var. capitata)</p> <p>Study 3: Photosynthetic and growth response of lowland head lettuce (<i>Lactuca sativa</i> L. var. capitata) plants applied with BamCoal Fertilizer under Saline Soils</p> <p>Study 4: Determining the plant-soil-nutrient profile of BamCoal Fertilizer: Its nutrient availability and utilization in soils grown with lowland head lettuce (<i>Lactuca sativa</i> L. var. capitata) plants</p>

CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Gonzaga	DOST-RO2 (CEST Fund)	Research Grant	<p>Program Title: Capability Building, Livelihood Development, and Environmental Protection for Climate Change Vulnerable Coastal Communities in Buguey, Cagayan Amidst the Pandemic Project</p> <p>Research Component</p> <p>Study 1: Growth and Survival Responses of Mangrove Crab (<i>Scylla serrata</i>) to Different Feed Diets Reared under Brackish Water Pond and Mangrove-Enclosure System</p> <p>Study 2: Socio-Economic Component, Buguey Lagoon Resource Use and Perception, and Participation of Coastal Communities in Mudcrab Industry of Buguey, Cagayan</p> <p>Study 3: Assessment of Mangrove Flora of Buguey Lagoon, Cagayan, Philippines</p> <p>Study 4: Evaluation of Seasonal Variations of Water Quality of Buguey Lagoon, Cagayan, Philippines</p> <p>Study 5: Rooting and Survivability of Agoho (<i>Casuarina equisetifolia</i> L.) Stem Cuttings in Different Potting Media</p>
Gonzaga	DOST 02	Research Grant	Enhancement of University's Development in Aquaculture through Grow-out of Giant Freshwater Prawn ( <i>Macrobranchium rosembergii</i> ) in Gonzaga Cagayan
Lallo	DOST-RO2	Research Grant	Bio efficacy Testing of Indigenous Plant-based Biopesticide against Leafhopper (GLH) and Brown Planthopper (BPH) of rice
Lallo	(CEST Fund)	Research Grant	Molecular Characterization Of Phytophthora Spp. Causing Cacao( <i>Theobroma Cacao</i> ) Pod Rot: Its Incidence, Distribution, And Impact On Cacao Growth, Development And Bean Yield Losses In Cagayan Province
Lal-lo	DOST 02	Research Grant	Program Title: Fragrant grass and essential oil industry development program in Cagayan valley

CAMPUS	NAME OF AGENCY	NATURE OF PARTNERSHIP	NAME OF RESEARCH PROJECTS/ACTIVITY
Lal-lo	DOST -PCAARRD	Research Grant	Proj: Enhancing the Productivity and Supply Chain of Banana Industry in Cagayan Valley Region Proj. 2. Assessment and distribution of Banana Bunchy Top Disease (BBTD) in Cagayan Valley Region Proj. 3. Rehabilitation and Adaptability Trial of Lakatan and Saba Varieties of Banana in the Province of Cagayan
Lal-lo	DOST R02	Research Grant	Café Valena through Stride: Science and Technology on Coffee Production towards Community Development and Resiliency
Lal-lo	DOST R03	Research Grant	Café Valena Value Adding Towards Community Empowerment and Sustainable Development
Piat	DA-R02	Research Grant	Nutritional, Functional and Sensory Properties of Pawa Enhanced with Pigmented Rice
Piat	DOST Region 2-GIA	Research Grant	Utilization of Lubeg ( <i>Syzygium spp.</i> ) as Natural Flavorant for Milk and Milk Products
Piat	DOST-R02-GIA	Research Grant	Development of Ready-to-Eat Nutri Bar out of Saba ( <i>Musa acuminata</i> ) - Peanut ( <i>Arachishypogaea</i> (L) Wilczek with Malunggay ( <i>Moringaoleifera</i> )
Piat	PhilRice	Research Grant	Multi-Purpose Seeding Project
Piat	UPLB-DTRI	Research Grant	Assisted Reproduction, Nutrition and Health Interventions for Enhanced Dairy Cattle Productivity and Milk Safety
Piat	DTI-CPO	Research Grant	Tropical Fruits Processing Facility
Sanchez Mira	DOST	Research Grant	Development of Powdered Santol Sinigang Mix
Sanchez Mira	DOST	Research Grant	Commercialization of Coco-Based Cottage Cheese
Sanchez Mira	DOST	Research Grant	Efficacy Testing of the Coco Peat-Based Soil Conditioner with Leafy Vegetables Test Crops
Sanchez Mira	DOST	Research Grant	Sensory Acceptability and Physico-Chemical Properties of Coconut Flour in Processing Embotido
Sanchez Mira	DOST	Research Grant	Organoleptic and Physico-Chemical Evaluation of Oyster Mushroom Fortified Ice Cream
Sanchez Mira	DOST	Research Grant	Acceptability of Catmon Marinade Mix for Grilled Dishes
Sanchez Mira	CSU-DOST	Research Grant	Sunberry as Herbal Medicine for Immune Boosting

# EXTENSION



Despite strict restrictions and protocols due to COVID-19 pandemic which severely affected the smooth implementation of Extension and TVET programs, projects and activities this Fiscal Year 2021, the University Extension and TVET office achieved a flourishing accomplishments and recognition. The year 2021, CSU have much to celebrate and be thankful for because the success that it aimed this year did not fail. At Cagayan State University Extension and TVET, the usual work continues with the dedication and conscientious efforts of the 8 satellite campuses who have contributed to these outstanding achievements. Other campuses even far surpass their targets in their accomplishments this year.

All these successes and accomplishments were made possible because of the support of the CSU administration and the proper utilization of institutional funds allocated to both Extension and TVET. Also this year, a quite big external funding assistance for Extension from the Department of Science and Technology-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST- PCAARRD), Department of Agriculture Region 02 and Department of Science and Technology Region 02 and Department of Environment and Natural Resources Region 02 were all appreciated. These agencies developed their trust to CSU as partner implementer of these projects of which they pledged their continued support and willingness for more partnership projects with CSU. Likewise, TVET accredited programs in the campuses continued to perform

at their best with the strong technical and financial support, assistance and partnership with Technical Education and Skills Development Authority (TESDA). Moreover, effective development projects would not be realized without working collaboratively with Local Government Units in the province of Cagayan and in neighboring provinces and Regions, other State Colleges and Universities, other partner agencies like Department of Education, Department of Social Welfare and Development, Agricultural Training Institute, Cagayan Valley Agricultural and Aquatic Resources Research and Development(CVAARRD), Disaster Risk Reduction and Management Office, Department of Public Works, Department of Interior and Local Government, and Highways and a lot more. Finally, the communities whom the University Extension and TVET are dedicated to serve and partner with in attaining inclusive community growth and development.



## CAMPUS EXTENSION AWARDS RECEIVED

**2021 CSU IN-HOUSE REVIEW AND EVALUATION**  
Development and Extension Category

**1st Place**  
96.25%  
**BAYANIHAN II:**  
MASSIVE SEEDS AND SEEDLINGS  
PRODUCTION PROGRAM IN CAGAYAN  
PROVINCE  
AUTHORS:  
PROF. JOSIE Y. BAS-ONG, *et. al.*  
University Extension Office

**2nd Place**  
95%  
**TANGKIRAN HAVEN:**  
BUILDING STABLE, SUSTAINABLE AND  
RESILIENT COMMUNITIES THROUGH  
BAMBOO-BASED AGROFORESTRY  
RESEARCH, DEVELOPMENT AND  
EXTENSION PROGRAM IN GONZAG  
AUTHORS:  
DR. FROILAN A. PACRIS, JR., *et. al.*  
Gonzaga Campus

**3rd Place**  
93.5%  
**BARANGAY KAAGAPAY:**  
PARTICIPATORY COMMUNICATION  
MATERIALS DEVELOPMENT FOR  
PARTNER BARANGAYS IN TUGUEGARAO,  
CITY  
AUTHORS:  
PROF. JAN JUSTIN C. RODRIGUEZ, *et. al.*  
Carig Campus

TITLE OF EXTENSION PROJECT/NAME OF AWARDEE	AWARD/RECOGNITION	DONOR OF AWARD
BAYANIHAN II: Massive Seeds and Seedlings Production Program in Cagayan Province	1st Place-Best Development Paper	CSU
TANGKIRAN HAVEN: Building Stable, Sustainable and Resilient Communities through Bamboo-Based Agroforestry Research, Development and Extension Program in Gonzaga	2nd Place-Best Development Paper	CSU
	3rd Place-Best Development Paper	CVAARRD
BARANGAY KAAGAPAY: Participatory Communication Materials Development for Partner Barangays in Tuguegarao City	3rd Place-Best Development Paper	CSU



LGU Baggao awards Certificate of Appreciation to CSU Carig Campus

# 3<sup>rd</sup> Best Paper

during the 2nd CVAARRD Virtual Regional Symposium on R&D/E Highlights with the theme: “Bridging R&D/E gaps and creating seamless communication among S&T innovators and stakeholders through digitization and continuing innovations for enhanced AANR productivity” on November 9-10, 2021.



## Congratulations!



Department of Science and Technology recognized Dr. Froilan A. Pacris, Jr. as one of the BEST Science, Technology, and Innovation (STI) Partners of the DOST in the Province of Cagayan.

Department of Science and Technology recognized Dr. Florante Victor M. Balatico as one of the BEST Science, Technology, and Innovation (STI) Partners of the DOST in the Province of Cagayan.



## EXTENSION ACCOMPLISHMENTS

As part of our commitment to sustainability, the university had set some ambitious targets to be achieved this Calendar Year 2021. Our annual performance evaluation is focused on PBB and SUC Levelling indicators. This year has been a struggle for the whole extension community due to restrictions imposed as a response to Covid-19 pandemic. However, we are delighted that we still achieved our targets amidst this difficult and risky situation we are in.

INDICATORS	ACCOMPLISHMENTS
Number of active partnerships in LGUs, industries, NGOs, NGAs, SMEs, and other stakeholders as a result of extension activities	20
Number of trainees weighted by the length of training	10,927.75
Number of extension programs organized and supported consistent with SUCs mandated and priority programs	20
Percentage of beneficiaries who rate the training course/s and advisory services as satisfactory or higher in terms of quality and relevance	99.9%
Number of Adopters	29
Number of Viable Demonstration Area	5





A. Number of active partnerships in LGUs, industries, NGOs, NGAs, SMEs, and other stakeholders as a result of extension activities

CAMPUS	PHYSICAL TARGET	ACCOMPLISHMENT
Andrews	2	0
Aparri	2	1
Carig	2	10
Gonzaga	2	4
Lal-lo	2	1
Lasam	2	1
Piat	2	2
Sanchez Mira	2	1
<b>TOTAL</b>	<b>16</b>	<b>20</b>

B. Number of trainees weighted by the length of training

CAMPUS	PHYSICAL TARGET	ACCOMPLISHMENT
Andrews	1,931	432
Aparri	966	1,282
Carig	2,253	3,175.5
Gonzaga	644	1,446.75
Lal-lo	483	1,426.75
Lasam	402	430
Piat	644	1122
Sanchez Mira	724	1,612.75
<b>TOTAL</b>	<b>8,047</b>	<b>10,927.75</b>

C. Number of extension programs organized and supported consistent with SUCs mandated and priority programs

CAMPUS	PHYSICAL TARGET	ACCOMPLISHMENT
Andrews	2	1
Aparri	2	1
Carig	2	2
Gonzaga	2	5
Lal-lo	2	3
Lasam	2	2
Piat	2	4
Sanchez Mira	2	2
<b>TOTAL</b>	<b>16</b>	<b>20</b>

D. Number of of Adopters

CAMPUS	CONTINUING ADOPTERS FROM PREVIOUS YEARS	NEW ADOPTERS ENGAGED IN PROFITABLE ENTERPRISES
Andrews	2	0
Aparri	5	3
Carig	13	2
Gonzaga	10	2
Lal-lo	6	7
Lasam	5	0
Piat	14	9
Sanchez Mira	12	6
<b>TOTAL</b>	<b>67</b>	<b>29</b>

E. Viable Demonstration Areas Established

CAMPUS	PHYSICAL TARGET	ACCOMPLISHMENT
Andrews	5 (2019 - 2021)	0
Aparri		1
Carig		0
Gonzaga		1
Lal-lo		0
Lasam		0
Piat		1
Sanchez Mira		
<b>TOTAL</b>		<b>16</b>

F. Newly Established Campus Demonstration Areas

CAMPUS	New Demonstration Areas Established (2021)
Andrews	0
Aparri	0
Carig	1
Gonzaga	1
Lal-lo	1
Lasam	0
Piat	2
Sanchez Mira	1
<b>TOTAL</b>	<b>6</b>

# PARTNERSHIP AND RESOURCE MOBILIZATION



Partnership in Higher Education Institutions (HEIs) like Cagayan State University is necessary and valuable as it results to improved program quality, more efficient use of resources and alignment of goals and curricula. To achieve this, CSU has strengthened and widened its linkages here and abroad. Several local linkages have been forged and sustained which helped the university in the areas of Instruction, Research and Extension and Production. International linkages were also sustained and strengthened. The university recognizes that internationalization of higher education is a way of ensuring quality education. While there are risks involved, internationalization has posed greater benefits to education such as knowledge translation and acquisition, mobilization of talent in support of global research, enhancement of the curriculum with international content, enhanced prestige of the university and improved graduate employability. Several Memorandum of Understanding (MOUs) were inked between CSU and other Asian universities such as the Universiti Teknologi Mara (UiTM) in Malaysia and Universitas Muhammadiyah Sumatera Utara (UMSU) in Indonesia. These partnerships resulted to international engagements - a research on Multi-Cultural Collaboration on Online Learning and the International Conference on Futures Thinking Towards Sustainable Development Goals (SDG).

**DOMESTIC AND INTERNATIONAL PARTNERSHIP**



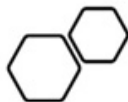
Memorandum of Understanding (MOU) Signing between CSU and UiTM held on July 13, 2021 via Zoom and FB Live.



**MEMORANDUM OF UNDERSTANDING SIGNING CEREMONY**  
 between  
**UNIVERSITI TEKNOLOGI MARA, MALAYSIA**  
 &  
**CAGAYAN STATE UNIVERSITY, PHILIPPINES**  
**13 JULY 2021 (TUESDAY)**  
**9:00 AM - 10:30 AM**  
 zoom | LIVE YouTube Channel UiTM Cawangan Kelantan  
 UiTM | di hatiku

Associate Professor Dr Zulkifli Mohamed p.s.x. (Exercising the functions of the Rector) Universiti Teknologi MARA Kelantan Branch

Dr Urdujah G. Alvarado University President Cagayan State University



**CSU Signs Memorandum of Understanding with Universiti Teknologi Mara, Malaysia**

July 13, 2021 – *Cagayan State University (CSU)* today signed a Memorandum of Understanding with one of Malaysia’s largest universities, the *Universiti Teknologi Mara (UiTM)*.

The historic virtual MOU signing was graced by the top officials of both universities. **President Urdujah G. Alvarado** represented CSU, and **Dr. Zulkifli Mohamed** represented UiTM. Cagayan State University VP for Academics, Dr. Mariden Ventura-Caulilan, Vice President for Research, Dr. Junel Guzman, the Officer-in-Charge for Partnership and Resource Mobilization, Dr. Gigid T. Battung, and the Director for Domestic and International Partnership, Prof. Kristinne Joyce Lara, the CSU Campus Executive Officers and PRM Coordinators from the 8 campuses, and the officials of the Universiti Teknologi Mara were also present to witness the event.

Prof. Ana Marie Caulilan, the master of ceremonies and the University Information Officer welcomed officials and participants from both Malaysia and the Philippines at 9:00 a.m via ZOOM. The program ran smoothly as the two universities exchanged academic and cultural heritages through institutional and cultural video exhibitions and tokens of appreciation. Cagayan State University also enumerated all possible areas and projects where the two universities can cooperate, including faculty and student exchanges and research collaboration and publication.

This is just one of the many great projects of the university towards Internationalization through stronger Domestic and International Partnerships.





# Memorandum of Understanding (MOU) Signing between CSU and UMSU held on November 11, 2021 via Zoom and FB Live.



## MEMORANDUM OF UNDERSTANDING SIGNING CEREMONY



Prof. Dr. Agussani, M.AP.  
(Exercising the functions of the Rector)  
Universitas Muhammadiyah Sumatera Utara

between

UNIVERSITAS MUHAMMADIYAH SUMATERA UTARA, INDONESIA  
&  
CAGAYAN STATE UNIVERSITY, PHILIPPINES

November 11, 2021  
3:00 PM, Philippine Time



Dr. Urdijah G. Alvarado, CESO II  
University President  
Cagayan State University



Cagayan State University



UMSU TV



Cagayan State University



UMSU TV

International Conference on Futures Thinking Towards Sustainable Development Goals was conducted in December 17, 2021. This was attended by almost 500 participants from Indonesia, Malaysia, Taiwan, Spain, Vietnam and the Philippines.

Different speakers shared their knowledge on futures thinking in the plenary session which elaborated on the following topics:

- a. Shaping the Future Towards Sustainability
- b. APF Professional Foresight Competency Framework
- c. Design Thinking for Smart Cities
- d. Multicultural Collaboration in Online Learning
- e. Hiraya Futures in Action Online Learning

Parallel sessions were also conducted with the following topics;

- a. Nutrition in the context of COVID 19
- b. Shaping Women's Entrepreneurial Futures Thinking
- c. Ocean Development and Cetacean Conservation: A Case from Taiwan
- d. Inter and Multidisciplinary Online Learning
- e. Next Generation Foresight: Youth Futures and Intergenerational Fairness
- f. Village Fund as a Policy for Poverty





The university was able to send another batch of students to St. Mary's University in Halifax, Nova Scotia, Canada under the student exchange program. Two students from the College of Education in Andrews and from the College of Human Kinetics in Carig were qualified in the program.



**DIANNE SIMANGAN**

*BS Education - Social Studies, 4th Year Student*



**PATRICK DALE UMANGAY**

*BS Education - Social Studies, 4th Year Student*



**AVON CLAUS LUIS**

*Bachelor of Physical Education, 4th Year Student*

With strong leadership and commitment of the administration, more partnerships are expected to be forged in the coming years. On top of the remarkable accomplishments of university, noteworthy activities were also performed by other campuses. The following summarizes the accomplishments of the university as well as the campuses on Partnership.

## UNIVERSITY BUSINESS AFFAIRS

The Cagayan State University is composed of eight (8) campuses which are strategically located in the Province of Cagayan. Each of these campuses offers unique programs, which are highly relevant to the agro-industrial development needs of the target service areas. Every campus has competent human resources, physical facilities and wide expanse of lands which are used to support the instruction, research and extension undertakings. These resources together with their strategic location offer great potentials for establishing income-generating enterprises to augment the limited annual budgetary allocation which is not adequate to finance their respective development needs.

Decreasing government subsidy for MOOE in SUC's nowadays is a fact that requires intervention to mitigate the negative impact in the school's normal operation. Thus, income generation was strengthened and expanded in almost if not all SUCs especially with the passage of Republic Act 8292 otherwise known as the Education Modernization Act that mandated SUCs to include production as an additional function aside from the usual instruction, research and extension functions. The Cagayan State University has been engaged in generating additional income through income generating projects (IGPs) in addition to the income derived from student fees.

The COVID-19 outbreak and lockdown measures led to a sharp decline on merchandise sales and zero sales on rentals among the business enterprises of the different campuses of the university. However, the campus business offices provide a strong spirit to continuously perform its mandate and functions in generating income from its different IGE projects both animal and crop production. Likewise, other campuses re-created a new way by diverting to other business enterprise just to ensure an income for their campuses. We hope this report contributes to the on-going policy discussion on the board-level support measures needed to reignite the University Business Affairs.



## INCOME GENERATING PROJECTS

CAMPUS	EXISTING INCOME GENERATING PROJECTS	NEW INCOME GENERATING PROJECTS
Andrews	<ol style="list-style-type: none"> <li>1. Book Sales</li> <li>2. Uniforms and Merchandising Items</li> </ol>	<ol style="list-style-type: none"> <li>1. Assessment Centers</li> </ol>
Aparri	<ol style="list-style-type: none"> <li>1. Fish Production</li> <li>2. Rice Production</li> <li>3. Fish and Food Processing</li> <li>4. Uniform and Merchandising</li> <li>5. Rentals</li> </ol>	
Carig	<ol style="list-style-type: none"> <li>1. Uniforms and Merchandising Items</li> <li>2. Rentals</li> <li>3. Appliance Loans</li> </ol>	<ol style="list-style-type: none"> <li>1. Printing and Publication</li> <li>2. Garment Shop</li> <li>3. Graduation Pictorials</li> </ol>
Gonzaga	<ol style="list-style-type: none"> <li>1. Small Ruminant Production</li> <li>2. Vermicomposting</li> <li>3. Rice Production</li> <li>4. Pecking and Duck Production</li> <li>5. Chicken Layer Production</li> <li>6. Native Eggs Production</li> <li>7. Bamboo Production</li> <li>8. Rentals</li> <li>9. Swine Production</li> <li>10. Appliance Loan</li> <li>11. High Value Crop Production</li> <li>12. Uniform and Merchandising Items</li> </ol>	
Lal-lo	<ol style="list-style-type: none"> <li>1. Carabeef Project</li> <li>2. Sheep/ Goat Project</li> <li>3. Hybrid Piggery Project</li> <li>4. Native Pig Project Free Range Type</li> <li>5. Cattle Project</li> <li>6. Mango production and spraying project</li> <li>7. Old Coffee Plantation Project</li> <li>8. Coconut Project</li> <li>9. Food Court Operation Business</li> <li>10. Cap and Gown Rentals</li> <li>11. Tractor rentals</li> </ol>	<ol style="list-style-type: none"> <li>1. Pineapple Production Project</li> <li>2. Rice production project</li> <li>3. Corn Production project</li> <li>4. Vegetable Production Project</li> </ol>



CAMPUS	EXISTING INCOME GENERATING PROJECTS	NEW INCOME GENERATING PROJECTS
Lasam	<ol style="list-style-type: none"> <li>Uniform and Merchandising Items</li> <li>Cookies Production</li> </ol>	1. Cacao Processing
Piat	<ol style="list-style-type: none"> <li>Animal Production</li> <li>Rice Production</li> <li>Vegetable Production</li> <li>Eco-Tourism Park</li> <li>Rentals</li> <li>Dairy and Milk Production</li> <li>Uniform and Merchandising Items</li> </ol>	
Sanchez Mira	<ol style="list-style-type: none"> <li>Financial Loan</li> <li>Merchandising</li> <li>Rentals</li> <li>Bakery and Catering</li> <li>Food Production</li> <li>Mushroom Production</li> <li>Piggery</li> <li>Rice Production</li> <li>Wine Production</li> <li>Vermi Production</li> <li>Coconut Product Production</li> </ol>	

### CAMPUS BUSINESS BANNER PROJECT

CAMPUS	BANNER PROJECTS
Andrews	Merchandising, assessment centers and space rentals
Aparri	Fish Production, processing of fish and other fishery related products
Carig	Merchandising, printing and publication shop, garments shop, space rentals and appliance, furniture, ICT Equipment Loan (AFIEL)
Gonzaga	Bamboo agro- forestry
Lallo	<p>Crops production particularly corn and other high value crops to include vegetable and other leguminous crops.</p> <p>Coffee and Cacao production</p>
Lasam	Cacao processing
Piat	Dairy Production and Processing Center
Sanchez Mira	Organic Agriculture and Coconut Food and Non-food Products

## INCOME GENERATED FROM IGE

CAMPUS	INCOME GENERATED	
	Total Gross Sale	Total Net Income
Andrews	306,397.00	*
Aparri	438,597.00	*
Carig	727,477.53	(887,911.36)
Gonzaga	1,623,540.84	*
Lal-lo	1,922,782.40	(396,361.08)
Lasam	300,000.00	86,400.00
Piat	2,112,333.00	(71,285.93)
Sanchez Mira	1,418,126.82	98,962.12
<b>GRAND TOTAL</b>	<b>8,849,254.59</b>	

\* - net income not reflected in their submitted report

The total gross income from the 8 campuses amounted to 8,849,254.59. Piat campus registered the highest gross income of 2,112,333.00 followed by Lal-lo Gonzaga, and Sanchez Mira with 1,922,782.40, 1,623,540.00, and 1,418,126.82 respectively. On the other hand, Lasam and Andrews Campus has the lowest gross income of 300,000.00 and 306,397.00 respectively. In terms of net income only Sanchez Mira and Lasam shows a positive in come of 98,962.12 and 86,000.00 respectively. Carig, Lal-lo and Piat has a negative in-come. Accordingly, the reason of negative net income among the campuses, the payment of COS and consultants were charged to the IGE funds, furthermore Carig and Lal-lo invested on new equipment for operations.

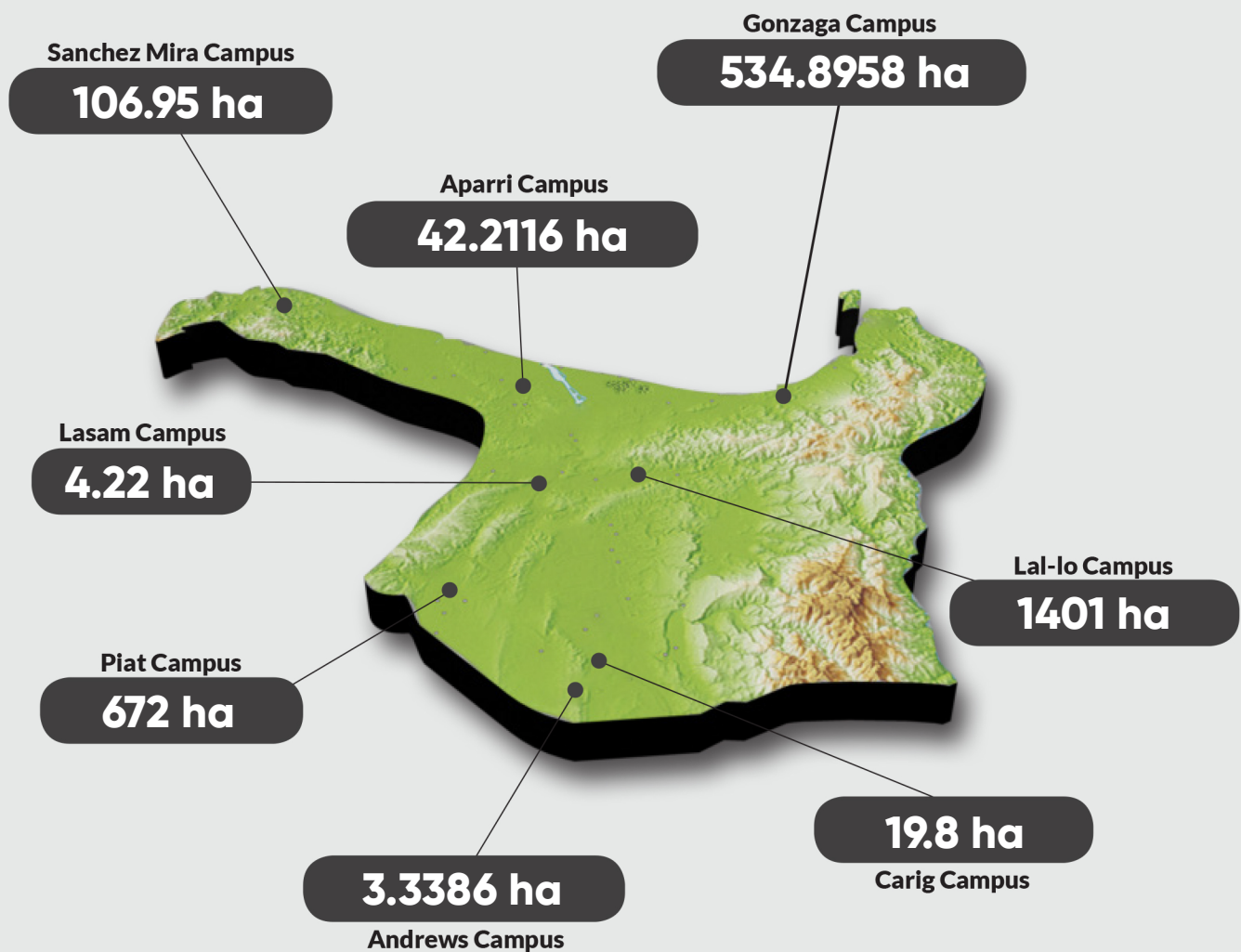
## HUMAN RESOURCES

CAMPUS	NUMBER OF INDIVIDUAL INVOLVED IN THE IGE PROJECT		SEX		TOTAL
	PERMANENT/ DESIGNATION	COS	NUMBER OF FEMALES	NUMBER OF MALES	
Andrews	4	2	3	3	6
Carig	3	3	2	4	6
Gonzaga	10	0	2	8	10
Piat	6	1	3	4	7
Aparri	8	2	3	7	10
Lallo	6	7	3	10	13
Lasam	4	0	1	3	4
Sanchez Mira	4	5	2	7	9
<b>Total</b>	<b>44</b>	<b>22</b>	<b>19</b>	<b>47</b>	<b>66</b>

## LAND AREA

Cagayan State University is composed of 8 campuses strategically located around Cagayan Province. It has a vast land area totaling to 2784.416 hectares which is used for both academic purposes and for income generating projects. The breakdown of the land per campus is as follows:

CAMPUS	LAND AREA
Andrews	3.3386 hectares
Aparri	42.2116 hectares
Carig	19.8 hectares
Gonzaga	534.8958 hectares
Lal-lo	1401 hectares
Lasam	4.22 hectares
Piat	672 hectares
Sanchez Mira	106.95 hectares
<b>TOTAL LAND AREA</b>	<b>2784.416 hectares</b>



## **MILESTONE IN BUSINESS AFFAIRS**

- A. Establishment of Assessment Centers as source of IGP
  - TVET Assessment and Training Centers in Sanchez Mira Campus, Piat Campus and Gonzaga Campus
  - Assessment and Training Centers in Andrews Campus
  
- B. DTI- Shared Services Facility
  - Rentals and Physical Assets for IGE in Sanchez Mira particularly on Food Production
  
- C. Improved Products
  - The chocolate tablea and other chocolate products has undergone improvement in Lasam Campus
  - The Valena Heritage coffee of Lallo improved its product quality, packaging and labelling in partnership with DOST R2
  
- D. Participation in the Milk Feeding Program of DEPEd and NDA.
  - This was made possible with the presence of the dairy center in Piat Campus that produced quality milk products. Distributed pasteurized milk in support to the Milk Feeding Program of DEPEd and NDA particularly in Tuao and Sto. Nino schools.
  
- E. Field Demonstration of Hybrid Rice in partnership with Private Seed Companies in Piat Cagayan.
  
- F. Establishment of Printing and Publishing Shop
  - Carig Campus procured and trained their staff in the Printing and Publishing IGE Project
  
- G. Marketing of CSU Quality Products
  - The Valena Heritage coffee of Lallo and Lasam's Tableya found its place in Lighthouse Cooperative.
  - Fresh pineapples from Carig campus and Dragon Fruits from Gonzaga campus were marketed locally in bulk orders.
  
- H. New Business Center of CSU-Carig
  - The new business center of CSU-Carig is ready for occupancy. This will house the Business office, printing and publication shop, convenient store, garment shop, metal shop and food catering services.
  
- I. Establishment of new IGP Buildings in CSU-Gonzaga
  - CSU-Gonzaga constructed the Balai Kawayan 2 and Bamboo kitchen as part of its amenities for the Agro-tourism park
  - Establishment of New Business center in CSU Carig to house the different IGE projects
  
- J. Establishment of mushroom production house adjacent to the Business Affairs Office of CSU Lallo with a capacity of 1,800 fruiting bags.
  
- K. Establishment of New Production Centers
  - Coffee Production Center and essential Oil Extraction center in Lallo

## BUSINESS CENTER



## MARKETING OF CSU QUALITY PRODUCTS



## PRINTING & PUBLISHING SHOP



## MILK FEEDING PROGRAM OF DEPED AND NDA



## TVET ASSESSMENT AND TRAINING CENTERS



## ESTABLISHMENT OF NEW PRODUCTION CENTERS



# GOVERNANCE



Bill 9179 / Senate Bill 2254 was successfully presented by President Urdujah G. Alvarado to the members of the Senate. This is an act converting Solana Extension Campus of the Cagayan State University in Solana into a regular campus of Cagayan State university, to be known as the Cagayan State University - Solana Campus. This bill was sponsored by Representatives Joseph Jojo Lasam Lara, Mark Go, Eric Go Yap and Senator Imee Marcos. President Urdujah G. Alvarado is so grateful to these government servants for their support to the university.



# CAGAYAN STATE UNIVERSITY SOLANA CAMPUS

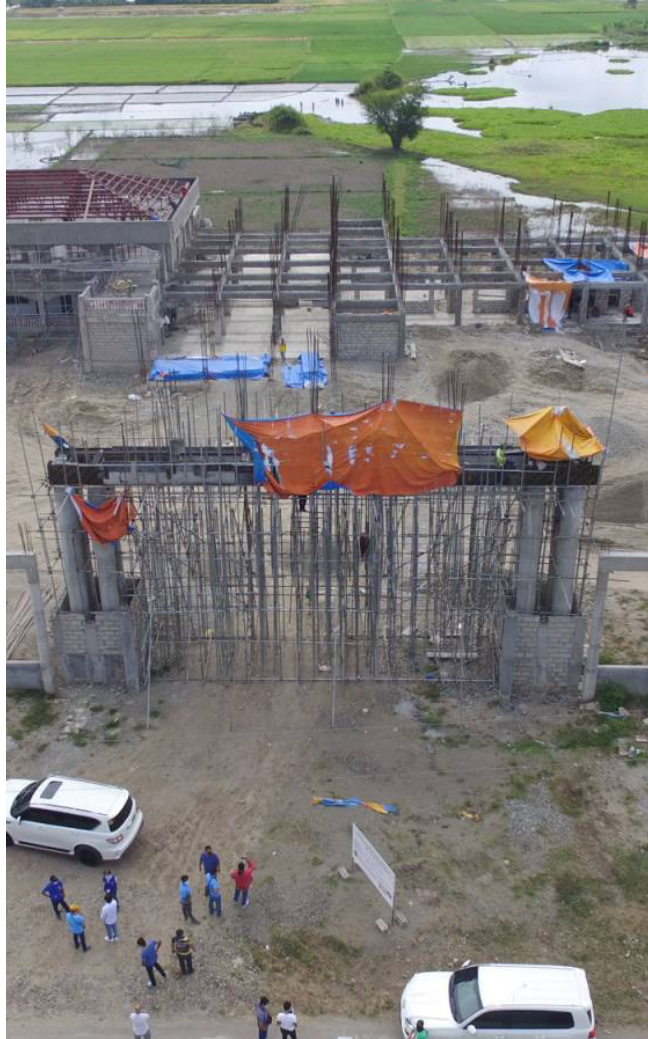


Photo Courtesy of Joseph "Jojo Pulsar" Lasam Lara Facebook Page

# GENDER AND DEVELOPMENT



In accordance with the Republic Act 9710, also known as the Magna Carta of Women (MCW), the Cagayan State University Gender and Development (CSU-GAD) Office strives for gender equality, and empowering men and women in delivering world-class education that promotes sustainable development, and socially responsible environment that is free from all forms of injustice. This is the vision that the CSU-GAD has for all academic members of the university, and this will be achieved through the implementation of Gender Mainstreaming activities.

To strengthen knowledge of students and employees on GAD, Gender Sensitivity Trainings (GST) were conducted among 2,791 female and 2,356 male students. While, several batches of GST were conducted among newly hired faculty members and administrative personnel. Also, there were deepening sessions conducted among GAD Focal Point System (GFPS) members to further elevate their capacities on Gender Mainstreaming.

As a means to provide guidelines and address the gender issues that the office has identified, 14 policies were crafted and disseminated to the concerned offices. Among which are review of existing GAD procedures, revision of the University GAD Agenda, integration of GAD in the syllabi and in the curricula, the use of Gender Fair





Language in Instructional Materials, and more. Similarly, the GAD Council as one of the university's mechanisms was established to facilitate Gender Mainstreaming in the university, as well as the Search for the Best GAD Implementer to strengthen GFPS and acknowledge outstanding GAD implementers in the entire university.

In compliance with RA 9262, and to create an abuse-free environment, numerous webinars on Anti-Violence Against Women and their Children (VAWC), Anti-Sexual Harassment, Anti-Bullying and other forms of abuses were conducted. These were joined by 1,998 female and 1,675 male students.

Five Knowledge Products on Women's Rights, Children's Rights, Safe Spaces, People with Disabilities (PWD) rights, Indigenous People and Adolescent Rights were developed and produced by the office to strengthen its advocacy.

Moreover, the university joined the nation in observing several celebrations such as the National Women's Month, Indigenous People's Month and Indigenous People's Right Act (IPRA) Commemoration, National Children's Month, Breast Cancer Awareness Month, and Breast Feeding Awareness Month. These efforts were recognized by the Philippine Commission on Women (PCW) and the National Commission on Indigenous People (NCIP).

The University has increased its efforts to promote gender equality, empower the marginalized, and involve the communities it serves in all of its endeavors. Cagayan State University, without a doubt, uplift people's quality of life.

# 2021 INFRASTRUCTURE

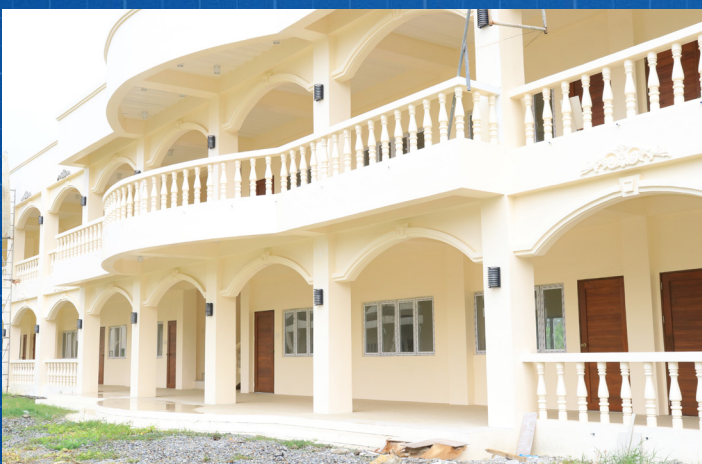
## ON-GOING INFRASTRUCTURE PROJECTS (GAA) AS OF DECEMBER 31, 2021

CAMPUS	NAME OF PROJECT / DESCRIPTION	DATE STARTED	DATE COMPLETED	REMARKS
APARRI	GATCHALIAN BLDG	SEPT 20, 2019	OCT. 27, 2021	COMPLETED
LASAM	CONSTRUCTION OF TWO STOREY ACADEMIC AND LABORATORY BUILDING	June 2, 2019	-	ON-GOING 75% AS OF DEC 2021
PIAT	REHABILITATION OF CSU PIAT COLLEGE OF AGRICULTURE BUILDING	June 2, 2019	JULY 1, 2020	COMPLETED
SANCHEZ MIRA	COMPLETION OF COLLEGE OF TEACHER EDUCATION BUILDING - SANCHEZ MIRA CAMPUS	June 1, 2019	DEC. 16, 2020	COMPLETED
GONZAGA	REHABILITATION OF 2-STOREY ACADEMIC AND LABORATORY BUILDING	FEB 1, 2020	NOV. 4, 2021	COMPLETED
GONZAGA	CONSTRUCTION OF 2-STOREY ACADEMIC AND LABORATORY BUILDING	FEB. 14, 2020	DEC. 2, 2021	COMPLETED
PIAT	RECONSTRUCTION OF THE COLLEGE OF TEACHER EDUCATION BUILDING	FEB. 14, 2020	-	ON-GOING 97% AS OF DEC 2021
CARIG	COMPLETION AND ANNEX OF INFORMATION TECHNOLOGY COMPLEX	May 12, 2020	-	ON-GOING 80% AS OF DEC 2021
ANDREWS	CONSTRUCTION OF 4-STOREY ACADEMIC BUILDING (PHASE I)	June 14, 2021	-	ON-GOING 31.06% AS OF DEC 2021
ANDREWS	COMPLETION OF 5-STOREY BUILDING	FEB. 14, 2020	-	ON-GOING 95% AS OF DEC 2021
GONZAGA	CONSTRUCTION OF PMO AND TISSUE CULTURE LABORATORY FOR MANGROVE AND BAMBOO RESEARCH AND INNOVATION CENTER	April 21, 2021	-	ON-GOING 40% AS OF DEC 2021

# APARRI CAMPUS

## GATCHALIAN BUILDING

Percentage Completed: 100%



# LASAM CAMPUS

CONSTRUCTION OF TWO STOREY ACADEMIC AND  
LABORATORY BUILDING  
Percentage Completed: 75%



# PIAT CAMPUS

REHABILITATION OF CSU PIAT  
COLLEGE OF AGRICULTURE BUILDING  
Percentage Completed: 100%



# SANCHEZ MIRA CAMPUS

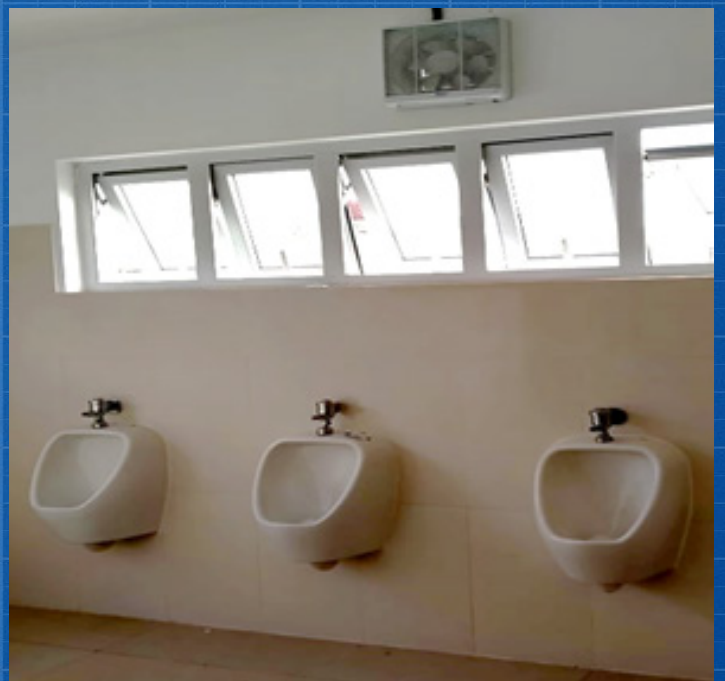
COMPLETION OF COLLEGE OF TEACHER EDUCATION BUILDING

Percentage Completed: 100%



# GONZAGA CAMPUS

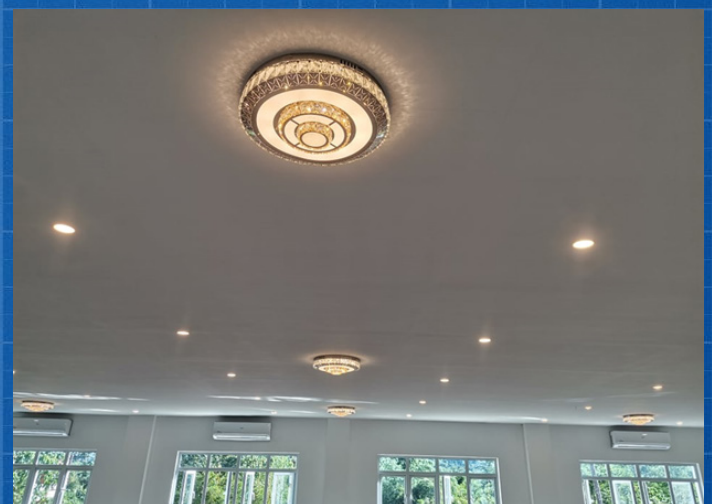
REHABILITATION OF 2-STOREY ACADEMIC AND  
LABORATORY BUILDING  
Percentage Completed: 100%



# GONZAGA CAMPUS

## CONSTRUCTION OF 2-STOREY ACADEMIC AND LABORATORY BUILDING

Percentage Completed: 100%





# PIAT CAMPUS

RECONSTRUCTION OF THE COLLEGE OF TEACHER  
EDUCATION BUILDING  
Percentage Completed: 97%



# CARIG CAMPUS

COMPLETION AND ANNEX OF INFORMATION  
TECHNOLOGY COMPLEX  
Percentage Completed: 80%



# ANDREWS CAMPUS

## CONSTRUCTION OF 4-STOREY ACADEMIC BUILDING (PHASE I)

Percentage Completed: 31.06%



# ANDREWS CAMPUS

## COMPLETION OF 5-STOREY BUILDING

Percentage Completed: 95%



# GONZAGA CAMPUS

## CONSTRUCTION OF PMO AND TISSUE CULTURE LABORATORY FOR MANGROVE AND BAMBOO RESEARCH AND INNOVATION CENTER

Percentage Completed: 40%





**CAGAYAN STATE  
UNIVERSITY**  
*Ad Optimum Educans*

# CURRICULAR OFFERINGS

*Cagayan State University offers a wide range of dynamic academic programs to suit every learner and sharpen every student's skill set in order to be a globally competent citizen.*

*CSU offers the following dynamic academic programs:*

## Doctoral Programs (3)

**Doctor of Philosophy in Education**

*Major: Educational Management  
English Language Education  
Science Education*

**Doctor of Philosophy in Psychology**

**Doctor of Public Administration**

## Master's Program (12)

**Master in Climate Resilience and  
Sustainable Development Management  
(Effective AY 2021-2022)**

**Master in Public Administration**

**Master in Public Health**

**Master of Arts in Education**

*Major: Educational Management  
English  
Filipino  
Social Studies  
Technology Education  
Management*

**Master of Arts in Guidance and Counseling**

**Master of Arts in Physical Education**

**Master of Arts in Psychology**

**Master of Arts in Technology and Education Management**

**Master of Industrial Technology  
(Effective AY 2021-2022)**

**Master of Science in Agriculture**

*Major: Animal Science  
Crop Science*

**Master of Science in Information  
Technology**

**Master of Science in Teaching**

*Major: Biology  
Chemistry  
Mathematics  
Physics*

## Pre-Baccalaureate Program (3)

**Certificate in Industrial Technology**

*Major: Automotive Technology  
Architectural Drafting  
Electrical Technology  
Electronics Technology*

**Diploma in Agricultural Technology**

**Diploma in Industrial Technology**

*Major: Automotive  
Electronics  
Food Technology*

## Post Baccalaureate Program (2)

**Juris Doctor**

**Doctor of Medicine**

## Technical-Vocational and Education Training (TVET) Program (10)

**Agricultural Crop Production NC II**

**Agricultural Crop Production NC III**

**Aquaculture NC II**

**Bookkeeping NC III**

**Food and Beverages NC II**

**Housekeeping NC II**

**Housekeeping NC III**

**Organic Agricultural Production NC II**

**Rice Machinery Operation NC II**

**Diploma in Agricultural Technology (DAT-BSA)**

## Baccalaureate Program (50)

**Bachelor in Human Services/Bachelor of Science in Guidance & Counseling**

**Bachelor of Arts in Communication**

**Bachelor of Culture and Arts Education**

*Major: Music*

**Bachelor of Arts in Economics**

**Bachelor of Arts in English Language Studies**

**Bachelor of Arts in Political Science**

**Bachelor of Early Childhood Education**

**Bachelor of Elementary Education**

**Bachelor of Library and Information Science**

**Bachelor of Multi Media Arts**

**Bachelor of Physical Education**

**Bachelor of Public Administration**

**Bachelor of Secondary Education**

*Major: English*

*Filipino*

*Mathematics*

*Science*

*Social Studies*

**Bachelor of Technical-Vocational Teacher Education**

*Major: Electronics Technology*

*Food Service Management*

**Bachelor of Technology and Livelihood Education**

*Major: Agri-Fishery Arts*

*Home Economics*

**Bachelor of Science in Accountancy**

**Bachelor of Science in Accounting Information System**

**Bachelor of Science in Accounting Technology**

**Bachelor of Science in Agricultural and Bio-Systems Engineering**

**Bachelor of Science in Agriculture**

*Major: Animal Science*

*Crop Science*

**Bachelor of Science in Architecture**

**Bachelor of Science in Biology**

**Bachelor of Science in Business**

**Administration**

*Major: Financial Management*

*Marketing Management*

**Bachelor of Science in Chemical Engineering**

**Bachelor of Science in Chemistry**

**Bachelor of Science in Civil Engineering**

**Bachelor of Science in Computer Engineering**

**Bachelor of Science in Computer Science**

**Bachelor of Science in Criminology**

**Bachelor of Science in Electrical Engineering**

**Bachelor of Science in Electronics Engineering**

**Bachelor of Science in Entrepreneurship**

**Bachelor of Science in Environmental Science**

**Bachelor of Science in Exercise and Sports Sciences**

*Major: Fitness and Sports Coaching*

*Fitness and Sports Management*

**Bachelor of Science in Fisheries and Aquatic Science**

**Bachelor of Science in Food Technology**

**(Effective AY 2021-2022)**

**Bachelor of Science in Hospitality Management**

**Bachelor of Science in Industrial and Commercial**

**Communication**

**Bachelor of Science in Industrial Technology**

*Major: Automotive Technology*

*Architectural Drafting*

*Electrical Technology*

*Electronics Technology*

*Fashion and Apparel Technology*

*Heating Ventilation & Air-Conditioning*

*Technology*

**Bachelor of Science in Information System**

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**Bachelor of Science in Psychology**

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**Bachelor of Science in Respiratory Therapy**

**Bachelor of Science in Social Work**

**Doctor of Veterinary Medicine**

For more inquiries, please contact:



**DR. MARIBI MA. BENITA E. BALAGAN**  
*Admissions Officer, CSU*



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MUSIC & LYRICS:  
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MUSICAL ARRANGEMENT:  
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**Fount of our visions, cradle of our dreams,  
well-spring of the fondest hopes  
for the youth of this our vale.  
God bless you, our University  
God go before you always.  
That we your sons and daughters  
be servants of truth  
Guardians of justice and instruments of love  
Rise without fear for our freedoms.  
Search without ceasing for all that is true.  
God be with you, our cherished CSU,  
May His light ever unfold you.**



SCAN TO WATCH  
ON YOUTUBE



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**INNOVATION CENTER**



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