

# Cagayan State University

# Annual Report

## School Year 2014-2015

CAGAYAN STATE UNIVERSITY





# Vision

**Transforming lives by educating for the best.**

The basic vision of the University is to make the Cagayan State University as a catalyst of change in improving the lives of individuals and communities by educating for the best. The one-liner vision succinctly captures the profound meaning and ultimate purpose of the collective efforts and educational directions of the university.

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## Mission

**Cagayan State University is committed to transform the lives of people and communities through high quality instruction and innovative research, development, production and extension.**

The Cagayan State University, a credible and distinguished center of higher education in Northern Luzon, is committed to improve the lives of people and communities by providing advanced instruction in the arts, agriculture, and natural sciences as well as in technological and professional fields through its strong quality of instruction and innovations in research, resource mobilization and extension. CSU contributes primarily to President Aquino's Social Contract to the Filipino people by providing quality education and training through instruction, research, extension and production.

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## Core Values

The Cagayan State University vision and mission are ably supported by six (6) core values which constitute a formidable base to guide and support the CSU administration in the operation of all its programs and projects.

The core values are captured in the Taglish acronym **PA-CARE**.

**Productivity** - Cagayan State University is committed to developing its human and non-human resources to sustain its operations and realize its mandates.

**Accessibility** - Cagayan State University is committed to intellectualizing the youth by allowing them to greater access to higher education.

**Compassion** - Cagayan State University is committed to alleviating or reducing the poverty incidence of the communities through advance higher education, innovative researches and responsive extension and training programs.

**Accountability** - Cagayan State University is committed to building competent professionals, leaders, scholars, researchers and entrepreneurs responsible in building just, peaceful, stable and progressive communities.

**Relevance** - Cagayan State University is committed to nurturing the youth by providing meaningful education.

**Excellence** - Cagayan State University is committed to offering quality teaching and resources to enable its students to succeed.



Republic of the Philippines  
**CAGAYAN STATE UNIVERSITY**  
Andrews Campus, Caritan, Tuguegarao City

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*Office of the University President*

July 20, 2015

His Excellency Benigno S. Aquino III  
President of the Republic of the Philippines  
Malacañang Palace, Manila, Philippines

Through: Hon. Patricia B. Licuanan  
Chairman, Commission on Higher Education  
CHED Central Office, Higher Education Development Center (HEDC)  
Building, C.P. Garcia Avenue, U.P. Diliman, Quezon City

Your Excellency:

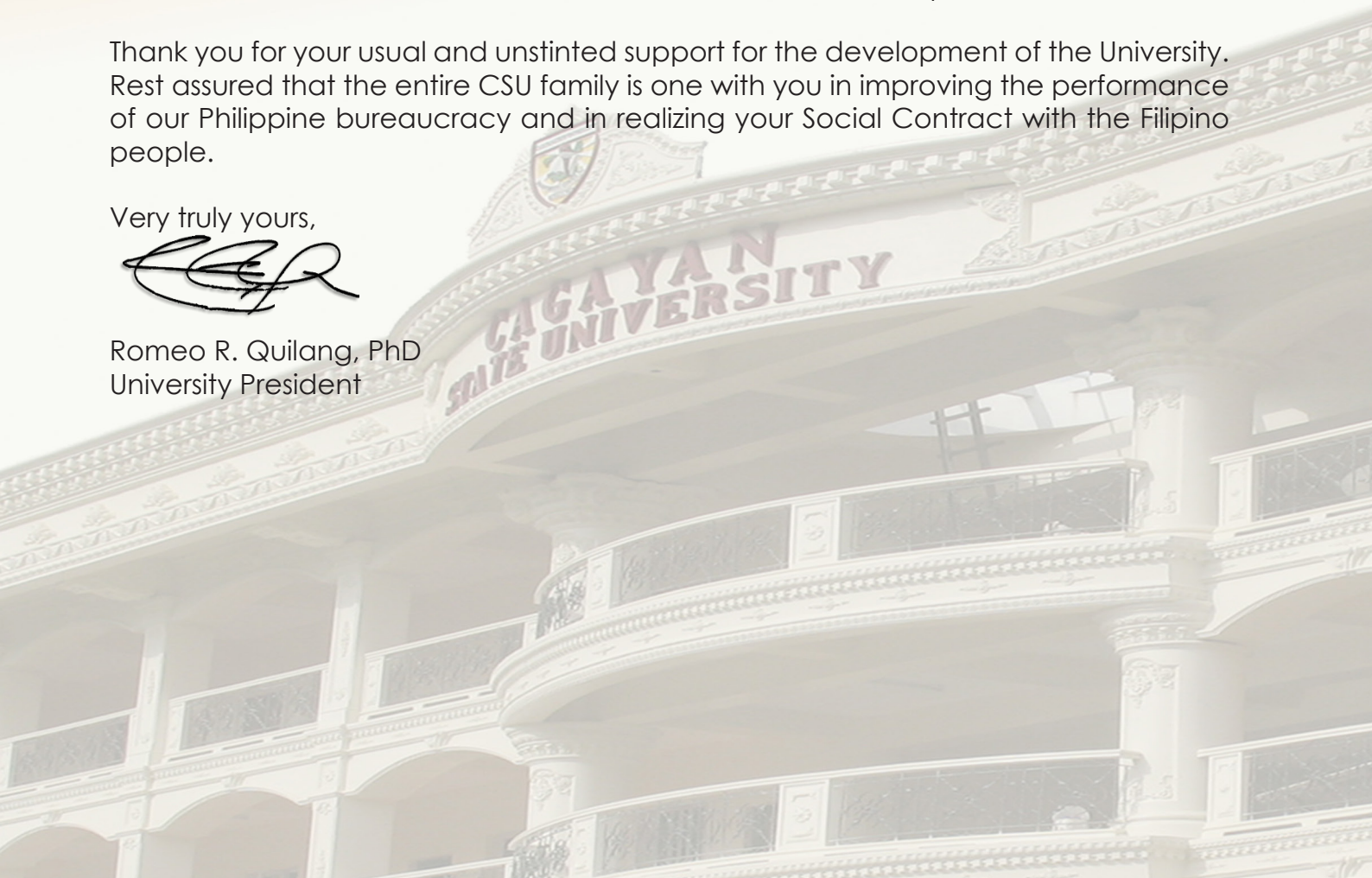
The Cagayan State University (CSU) respectfully submits its 2014-2015 Annual Report in compliance to the provisions of the Revised Administrative Code of 1987.

The report highlights the major accomplishments of the University in the performance of its four-fold functions - instruction, research, extension, and production.

Thank you for your usual and unstinted support for the development of the University. Rest assured that the entire CSU family is one with you in improving the performance of our Philippine bureaucracy and in realizing your Social Contract with the Filipino people.

Very truly yours,

Romeo R. Quilang, PhD  
University President





# HIGHER & ADVANCE EDUCATION

## DEGREE PROGRAMS OF THE UNIVERSITY

### DOCTORATE DEGREE PROGRAMS

Doctor of Public Administration  
Doctor of Philosophy in Education major in Educational Management  
Doctor of Philosophy in Education major in English Language Education  
Doctor of Philosophy in Education major in Science Education  
Doctor of Philosophy in Psychology

### MASTER'S DEGREE PROGRAMS

Master in Public Administration  
Master in Public Health  
Master of Arts in Education major in Educational Management  
Master of Arts in Education major in English  
Master of Arts in Education major in Filipino  
Master of Arts in Education major in Technology Education Management  
Master of Arts in Education major in Social Studies  
Master of Arts in Physical Education  
Master of Arts in Psychology  
Master of Arts in Guidance and Counseling  
Master of Science in Teaching major in Chemistry  
Master of Science in Teaching major in Physics  
Master of Science in Teaching major in Mathematics  
Master of Science in Teaching major in Biology  
Master of Science in Information Technology  
Master in Business Administration (Consortium with Manila Business College)

### POST-BACCALAUREATE PROGRAMS

Bachelor of Laws  
Doctor of Medicine and Surgery

### BACCALAUREATE PROGRAMS

Bachelor of Science in Medical Technology\*  
Bachelor of Science in Respiratory Therapy  
Bachelor of Science in Accountancy\*  
Bachelor of Science in Accounting Technology  
Bachelor of Science in Business Administration \*  
Bachelor of Science in Entrepreneurship\*  
Bachelor of Science in Legal Management  
Bachelor of Science in Hospitality Industry Management (ladderized)\*  
Bachelor of Elementary Education\*\*\*  
Bachelor of Secondary Education\*\*\*  
Bachelor of Technical Teacher Education  
Doctor of Veterinary Medicine\*\*  
Bachelor of Arts in English\*\*  
Bachelor of Arts in Mass Communication\*\*\*  
Bachelor of Science in Nursing  
Bachelor of Science in Industrial and Commercial Communication\*\*  
Bachelor of Science in Biology (Pre-Med Course)  
Bachelor of Science in Biology (Terminal)\*\*\*  
Bachelor of Science in Chemistry\*\*\*  
Bachelor of Science in Environmental Science\*\*  
Bachelor of Science in Mathematics\*\*\*  
Bachelor of Science in Physics  
Bachelor of Arts in Economics\*\*\*  
Bachelor of Arts in Political Science\*\*  
Bachelor of Science Guidance and Counseling\*\*  
Bachelor of Science in Psychology\*\*\*  
Bachelor of Science in Agricultural Engineering\*\*\*  
Bachelor of Science in Chemical Engineering\*\*

Bachelor of Science in Civil Engineering\*\*\*  
Bachelor of Science in Computer Engineering\*\*  
Bachelor of Science in Electronics Engineering\*\*  
Bachelor of Science in Electrical Engineering\*\*\*  
Bachelor of Arts in Public Administration\*\*\*  
Bachelor of Science in Computer Science  
Bachelor of Science in Information Technology\*\*  
Bachelor of Science in Information Technology major in Animation and Game Development\*\*  
Bachelor of Science in Physical Education\*\*  
Bachelor of Science in Industrial Technology (ladderized)\*\*\*  
Bachelor of Science in Fisheries\*\*\*  
Bachelor of Science in Criminology\*  
Bachelor of Science in Police Administration\*  
Bachelor of Science in Agriculture\*\*\*  
Bachelor of Agricultural Technology\*

### CERTIFICATE PROGRAM

Certificate Program in Teacher Education

### PRE-BACCALAUREATE PROGRAMS

Diploma in Agricultural Technology  
Diploma in Culinary Arts  
Diploma in Food Technology

\* Candidate Status  
\*\* Level I Accredited  
\*\*\* Level II Accredited

### ADMISSION REQUIREMENTS

#### FOR INCOMING FRESHMEN

College Admission Test (CAT) Result  
Four (4) copies of recent colored 2x2 ID picture with white background  
Original Form 138 (4th Year Report Card)  
Certificate of Good Moral Character  
Birth Certificate from NSO in two copies (original and photocopy)  
Authenticated marriage contract (for married students)

#### FOR TRANSFEREES

College Admission Test (CAT) Result  
Four (4) copies of recent colored 2x2 ID picture with white background  
Certified true copy of grades  
Certificate of Honorable Dismissal  
Certificate of Good Moral Character  
Police Clearance  
Birth Certificate from NSO in two copies (original and photocopy)  
Authenticated marriage contract (for married students)

*Note: Married female students should submit a notarized request for the change of name and status in addition to the photocopy of the marriage certificate.*

#### SCHEDULE OF COLLEGE ADMISSION TEST (CAT)

Monday - Saturday, 9 a.m. - 11 a.m. and 1 p.m. - 3 p.m.

To bring during the test: CAT Registration Form, school ID, pencil, and receipt of payment of P150 admission fee

For more information, call the Registrar at (078) 844-0098/99 local 1 or email to registrar@csu.edu.ph. Visit us at [www.csu.edu.ph](http://www.csu.edu.ph).



## Enrollment

The Cagayan State University hit a record high of 38,426 student enrollees this year. This figure yielded a 1.4% increase over last year's 37,884, a yet another proof of the university's unrelenting efforts to attract more Cagayanos to be part of the largest state institution of higher learning in the Cagayan Valley Region in terms of student population and number of curricular programs.

The summary of enrollment by campus and by program is presented here. Data in the last five years (Figure 1) are also placed on this page to have a quick glimpse at CSU's enrollment trend.

Table 1. Summary of enrollment by campus in 2014-2015.

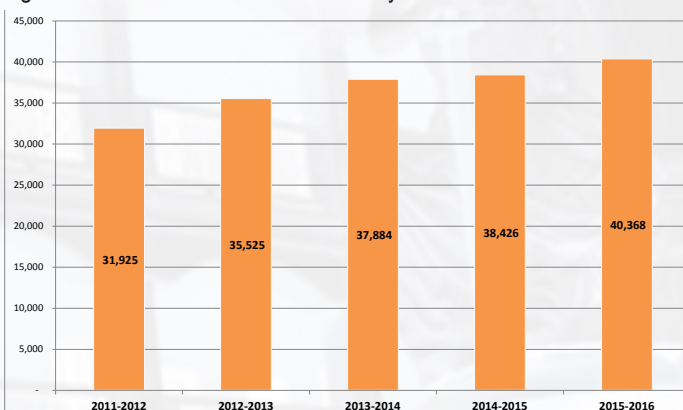
Campus	1st Sem	2nd Sem	Summer
Andrews	10835	9846	3707
Aparri	4810	4435	919
Carig	11033	10028	2934
Gonzaga	1990	1834	364
Lal-lo	1802	1677	332
Lasam	865	817	267
Piat	2609	2411	1011
S. Mira	4482	4172	970
<b>Total</b>	<b>38426</b>	<b>35220</b>	<b>10504</b>



Table 2. Summary of enrollment by campus in 1st Semester 2014-2015.

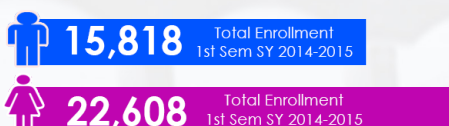
Program	Total
Doctor of Philosophy in Education	76
Doctor of Psychology	14
Doctor of Public Administration	18
Master in Business Administration	27
Master in Public Health	47
Master of Public Administration	97
Master of Arts in Education	207
Master of Arts in Guidance and Counseling	7
Master of Arts in Psychology	18
Master of Information Technology	20
Master of Physical Education	14
Master of Science in Agriculture	26
Master of Science in Information Technology	42
Master of Science in Teaching	63
Doctor of Medicine	389
Bachelor of Laws	295
Doctor of Veterinary Medicine	240
Bachelor of Agricultural Technology/DAT	370
Bachelor of Arts in Economics	65
Bachelor of Arts in English	202
Bachelor of Arts in Mass Communication	165
Bachelor of Arts in Political Science	237
Bachelor of Arts in Public Administration	354
Bachelor of Elementary Education	2461
Bachelor of Medical Laboratory Science	417
Bachelor of Science in Legal Management	87
Bachelor of Science in Accountancy	146

Figure 1. Enrollment trend for the last 5 years.\*



\* all first semester only.

Figure 2. Enrollment data by gender.





Bachelor of Science in Accounting Technology	1248
Bachelor of Science in Agricultural Engineering	324
Bachelor of Science in Agriculture	1240
Bachelor of Science in Biology	314
Bachelor of Science in Biology (F)	40
Bachelor of Science in Business Administration	1842
Bachelor of Science in Chemical Engineering	207
Bachelor of Science in Chemistry	54
Bachelor of Science in Civil Engineering	738
Bachelor of Science in Computer Science	391
Bachelor of Science in Computer Engineering	170
Bachelor of Science in Criminology	1714
Bachelor of Science in Electrical Engineering	271
Bachelor of Science in Electronics Engineering	236
Bachelor of Science in Entrepreneurship	247
Bachelor of Science in Environmental Science	88
Bachelor of Science in Fisheries	265
Bachelor of Science in Guidance and Counseling	49
Bachelor of Science in Hospitality Industry Management	4700
Bachelor of Science in Industrial and Commercial Communication	191
Bachelor of Science in Industry Technology	2853
Bachelor of Science in Information Technology	5493
Bachelor of Science in Mathematics	192
Bachelor of Science in Medical Technology	316
Bachelor of Science in Nursing	13
Bachelor of Science in Physical Education	1000
Bachelor of Science in Physics	38
Bachelor of Science in Police Administration	446
Bachelor of Science in Psychology	324
Bachelor of Science in Public Health	55
Bachelor of Science in Respiratory Therapy	416
Bachelor of Secondary Education	4391
Bachelor of Technical Teacher Education	368
Certificate Program for Teachers Education	124
Diploma in Culinary Arts	184
Associate in Veterinary Medicine	13
College of Engineering(GEC)	96

College of Business, Entrepreneurship & Accountancy(GEC)	1274
Laboratory High School	397



## Scholarships

In 2014, 7,526 students qualified for and enjoyed the benefits of being a scholar of various governmental and non-governmental agencies. Majority (5,439) of the students were recipients of government-based scholarships (GBS), while the others were recipients of UBS or university based-scholarships (1742) and PBS or private based scholarships (345).

The Office of Student Services and Welfare reported that scholarship grants for this year totaled to P 26,610,610 (GBS = 24,576,800; UBS = P 711,310; and PBS = P1,322,500).

Figure 3. Summary of scholarship by category.

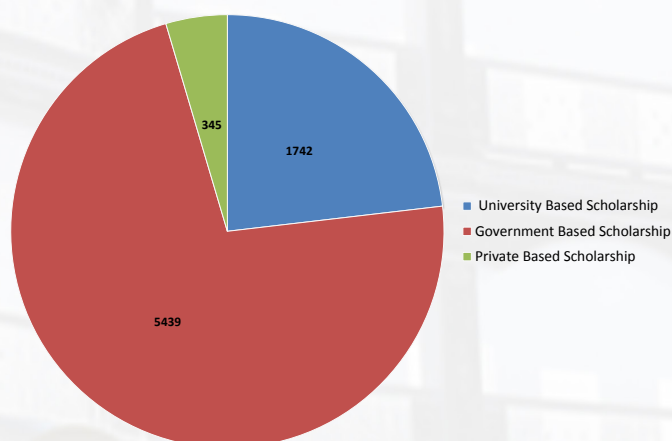


Table 3. Summary of scholarships SY 2014-2015.

University-Based Scholarship		Government-Based Scholarship		Private-Based Scholarship		Total	
Male	Female	Male	Female	Male	Female	Male	Female
680	1062	1844	3595	134	211	2658	4868
1742		5439		345		7526	



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Table 4. Number of Graduates for SY 2014-2015.

Campus	April 2015	Summer 2015	Total
Andrews	2353	140	<b>2493</b>
Aparri	721	26	<b>747</b>
Carig	1353	191	<b>1544</b>
Gonzaga	311	10	<b>321</b>
Lal-lo	377	11	<b>388</b>
Lasam	134		<b>134</b>
Piat	368	11	<b>379</b>
S. Mira	720	34	<b>754</b>
<b>Total</b>	<b>6337</b>	<b>423</b>	<b>6760</b>

## Number of Graduates

The University conferred to the 6,337 graduates their respective degrees and titles in a solemn ceremony held in the different campuses on separate dates. The number of graduates this year increased by 4.33% when compared to last year's 6,049.

CSU is blessed this year because it had no less than Senate President Franklin Drilon as guest speaker in the 37th Academic Convocation for the Conferment of Degrees and Titles at Carig Campus on April 8, 2015, 2 p.m., at the Red Eagle Gymnasium.

The other guest speakers invited to grace the most important event in the lives of the graduates from 70 academic programs included Court of Appeals Associate Justice Ramon Paul L. Hernando (Law, April 14), MMDA Chairman Francis Tolentino (Gonzaga, April 11), MMDA General Manager Corazon T. Jimenez (Andrews, April 10), and Sec. Manuel Mamba (Piat and Aparri, April 9).

CSU Lasam and CSU Sanchez Mira held their Academic Convocation for the Conferment of Degrees and Titles on April 11, 2015 and April 10, 2015, respectively.

Aparri conferred degrees to 721 graduates; Carig had 1,353; Gonzaga, 311; Lal-lo, 377; Lasam, 134; Piat, 368; Sanchez Mira, 719; and Andrews, 2,353.

On June 5, 2015, 423 marched onstage to receive their respective diplomas from the University President in a solemn commencement rite at the Andrews Gymnasium.





## Accredited Programs

When President Quilang came in 2012, he vowed the CSU academic community and other stakeholders of the institution to subject all curricular programs of the university to accreditation and reaccreditation visits. True his words, he mobilized right in the same year the members of the community for preliminary survey visit and Level I Accreditation visit of programs in Andrews and Carig campus. Creating a University Quality Assurance Team in 2013, President Quilang, with the help of the Campus Executive Officers and Vice President Mariden Ventura-Caritan, subjected more programs for accreditation visits. Today, the university prides itself as one of the State Colleges and Universities (SUCs) that have the most number of accredited programs nationwide. As of late, a total of 92 programs were already accredited by the Accrediting Agency of Chartered Colleges and Universities in the Philippines (AACCUP).

Table 5. Accredited programs by campus as of July 2015.

Campus	Candidate Status	Level I	Level II	Total
Andrews	25		2	27
Aparri	8		1	9
Carig		13	11	24
Gonzaga	8			8
Lal-lo	7			7
Lasam		3		3
Piat		5	1	6
S.Mira	8			8
<b>Total</b>	<b>56</b>	<b>21</b>	<b>15</b>	<b>92</b>

Table 6. Summary of accredited programs by level.

Candidate Status	56
Level I	21
Level II	15
Total Accredited Programs	92

Figure 4. Summary of accredited programs by degree.

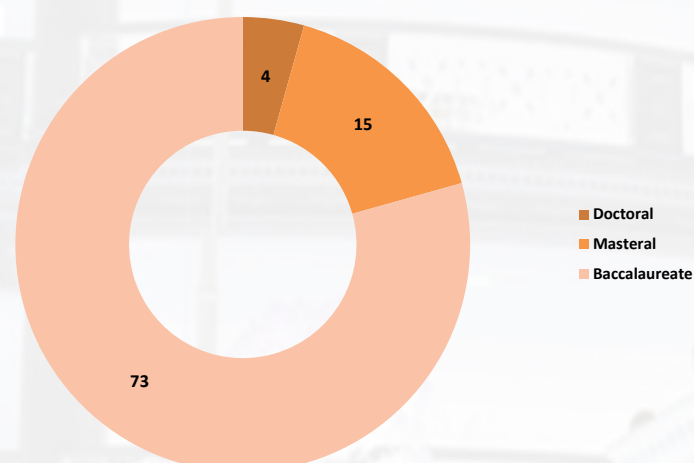


Table 7. List accredited programs as of July 2015.

Program	Level
<b>CARIG</b>	
BS in Agricultural Engineering	Level II Re-accredited
BS Civil Engineering	Level II Re-accredited
BS in Electrical Engineering	Level II Re-accredited
BS in Biology	Level II Re-accredited
BS in Chemistry	Level II Re-accredited
BS in Mathematics	Level II Re-accredited
BS in Psychology	Level II Re-accredited
BS in Industrial Technology	Level II Re-accredited
AB Public Administration	Level II Re-accredited
AB Economics	Level II Re-accredited
AB Mass Communication	Level II Re-accredited
Doctor of Veterinary Medicine	Level 1 Accredited
BS in Chemical Engineering	Level 1 Accredited
BS in Computer Engineering	Level 1 Accredited
BS in Electronics and Communication Engineering	Level 1 Accredited
AB in Political Science	Level 1 Accredited
AB in English	Level 1 Accredited
BS in Information Technology	Level 1 Accredited
BS in Computer Science	Level 1 Accredited
BS in Information Technology major in Animation and Game Development	Level 1 Accredited
BS in Industrial and Commercial Communication	Level 1 Accredited
BS in Guidance and Counseling	Level 1 Accredited
BS in Environmental Science	Level 1 Accredited
BS in Physical Education	Level 1 Accredited
<b>ANDREWS</b>	
Bachelor of Secondary Education	Level II Re-accredited
Bachelor of Elementary Education	Level II Re-accredited
BS in Medical Technology	Candidate
BS in Accountancy	Candidate
BS in Business Administration (Financial Management)	Candidate



BS in Business Administration (Marketing Management)	Candidate
BS in Entrepreneurship	Candidate
BS in Hospitality Industry Management	Candidate
Doctor of Public Administration	Candidate
Doctor of Philosophy in English Language Ed	Candidate
Doctor of Philosophy in Science Education	Candidate
Doctor of Philosophy in Educational Management	Candidate
Master in Public Administration	Candidate
Master in Public Health	Candidate
MAEd in Educational Management	Candidate
MAEd in English	Candidate
MAEd in Filipino	Candidate
MAEd in Social Studies	Candidate
MAEd in Technology Education Management	Candidate
MA in Physical Education	Candidate
MA in Psychology	Candidate
MA in Guidance and Counseling	Candidate
MST Chemistry	Candidate
MST Physics	Candidate
MST Biology	Candidate
MST Mathematics	Candidate
MS Information Technology	Candidate
<b>GONZAGA</b>	
BS in Agriculture	Candidate
Bachelor of Secondary Education	Candidate
Bachelor of Elementary Education	Candidate
BS in Police Administration	Candidate
BS in Criminology	Candidate
BS in Hospitality Industry Management	Candidate
BS in Information Technology	Candidate
BS in Business Administration	Candidate
<b>LASAM</b>	
Bachelor of Elementary Education	Level 1 Accredited
BS in Information Technology	Level 1 Accredited
BS in Industrial Technology	Level 1 Accredited
<b>PIAT</b>	
BS in Agriculture (Crop and Animal Science)	Level II Re-accredited
Bachelor of Secondary Education	Level 1 Accredited
Bachelor of Elementary Education	Level 1 Accredited
BS in Police Administration	Level 1 Accredited
BS in Criminology	Level 1 Accredited
BS in Information Technology	Level 1 Accredited
<b>APARRI</b>	
BS in Fisheries	Level II Re-accredited
Bachelor of Elementary Education	Candidate
Bachelor of Secondary Education	Candidate

BS in Industrial Technology	Candidate
BS in Information Technology	Candidate
BS in Hospitality Industry Management	Candidate
BS in Police Administration	Candidate
BS in Criminology	Candidate
BS in Business Administration	Candidate
<b>LAL-LO</b>	
Bachelor of Elementary Education	Candidate
Bachelor of Secondary Education	Candidate
Bachelor in Agricultural Technology	Candidate
BS in Information Technology	Candidate
BS in Hospitality Industry Management	Candidate
BS in Agriculture	Candidate
AB Political Science	Candidate
<b>SANCHEZ MIRA</b>	
Bachelor of Elementary Education	Candidate
Bachelor of Secondary Education	Candidate
Bachelor in Agriculture (Crop & Ani. Science)	Candidate
BS in Information Technology	Candidate
BS in Business Administration (Management Accounting)	Candidate
BS in Criminology	Candidate
BS in Police Administration	Candidate
BS in Hospitality Industry Management	Candidate



# Performance in Licensure Examinations

As a result of its continuous efforts to improve its instructions services, the University has been performing well in various board examinations especially along criminology, medical technology, accountancy and teacher education. This year, CSU was placed in the national limelight when its student, Mr. Reynald P. Tomas, landed second in the 2014 CPA board examination. The other students who made the university so proud were Arvee Bucarile and Rhoshel Acebedo, who both made to the 10th place in the licensure examination for secondary teachers and licensure examination for elementary teachers, respectively. The results of the other board examination are listed below.

Table 8. CSU Performance in Licensure Examinations.\*

Campus	Date of Examination	Licensure Examination	Institutional Passing Rate	National Passing Rate
Andrews	January 2014	Licensure Examination for Teachers (Elementary)	72.73%	28.98%
Andrews	January 2014	Licensure Examination for Teachers (Secondary)	49.47%	28.41%
Andrews	August 2014	Licensure Examination for Teachers (Elementary)	71.95%	35.74%
Andrews	August 2014	Licensure Examination for Teachers (Secondary)	69.81%	34.40%
Andrews	March 2014	Medical Technologist Licensure Examination	100.00%	70.69%
Andrews	September 2014	Medical Technologist Licensure Examination	98.53%	82.60%
Andrews	September 2014	Respiratory Therapist	90.00%	61.81%
Andrews	July 2014	CPA Board Examination	0.00%	19.98%
Andrews	October 2014	CPA Board Examination	87.50%	37.02%
Andrews	October 2014	Bar Exam	19.51%	18.82%
Aparri	January 2014	Licensure Examination for Teachers (Elementary)	100.00%	28.98%
Aparri	January 2014	Licensure Examination for Teachers (Secondary)	50.00%	28.41%
Aparri	August 2014	Licensure Examination for Teachers (Elementary)	64.44%	35.74%
Aparri	August 2014	Licensure Examination for Teachers (Secondary)	45.59%	34.40%
Aparri	April 2014	Criminologist Licensure Examination	0.00%	33.79%
Aparri	October 2014	Criminologist Licensure Examination	100.00%	43.44%
Carig	February 2014	Physician Licensure Examination	100.00%	52.15%
Carig	August 2014	Physician Licensure Examination	91.67%	81.25%
Carig	November 2014	Chemical Engineer Licensure Examination	83.33%	68.43%
Carig	April 2014	Chemical Engineer Licensure Examination	0.00%	55.25%
Carig	March 2014	Electronics Engineer Licensure Examination	100.00%	35.24%
Carig	September 2014	Electronics Engineer Licensure Examination	41.94%	31.58%
Carig	May 2014	Civil Engineer Board Examination	25.00%	43.41%
Carig	December 2014	Civil Engineer Board Examination	58.49%	49.48%
Carig	July 2014	Agricultural Engineer Board Examination	58.33%	50.24%
Carig	February 2014	Electrical Engineer Board Examination	0.00%	34.83%
Carig	September 2014	Electrical Engineer Board Examination	80.95%	59.82%
Carig	September 2014	Chemist Licensure Examination	0.00%	59.72%
Carig	September 2014	Veterinarian Licensure Examination	60.00%	33.03%
Gonzaga	January 2014	Licensure Examination for Teachers (Elementary)	0.00%	28.98%
Gonzaga	January 2014	Licensure Examination for Teachers (Secondary)	100.00%	28.41%
Gonzaga	August 2014	Licensure Examination for Teachers (Elementary)	66.67%	35.74%
Gonzaga	August 2014	Licensure Examination for Teachers (Secondary)	68.75%	34.40%
Gonzaga	June 2014	Agriculturist Board Examination	0.00%	36.00%

\* Based on the PRC results



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Gonzaga	April 2014	Criminologist Licensure Examination	0.00%	33.79%
Gonzaga	October 2014	Criminologist Licensure Examination	83.33%	43.44%
Gonzaga	November 2014	Nurse Licensure Examination	94.74%	57.29%
Lallo	January 2014	Licensure Examination for Teachers (Elementary)	60.00%	28.98%
Lallo	January 2014	Licensure Examination for Teachers (Secondary)	33.33%	28.41%
Lallo	August 2014	Licensure Examination for Teachers (Elementary)	68.42%	35.74%
Lallo	August 2014	Licensure Examination for Teachers (Secondary)	64.44%	34.40%
Lallo	June 2014	Agriculturist Board Exam	28.57%	36.00%
Lasam	January 2014	Licensure Examination for Teachers (Elementary)	80.00%	28.98%
Lasam	August 2014	Licensure Examination for Teachers (Elementary)	45.83%	35.74%
Piat	January 2014	Licensure Examination for Teachers (Elementary)	100.00%	28.98%
Piat	January 2014	Licensure Examination for Teachers (Secondary)	50.00%	28.41%
Piat	August 2014	Licensure Examination for Teachers (Elementary)	37.50%	35.74%
Piat	August 2014	Licensure Examination for Teachers (Secondary)	45.45%	34.40%
Piat	June 2014	Agriculturist Board Examination	28.57%	36.00%
Piat	April 2014	Criminologist Licensure Examination	100.00%	33.79%
Piat	October 2014	Criminologist Licensure Examination	95.24%	43.44%
Smira	January 2014	Licensure Examination for Teachers (Elementary)	33.33%	28.98%
Smira	January 2014	Licensure Examination for Teachers (Secondary)	100.00%	28.41%
Smira	August 2014	Licensure Examination for Teachers (Elementary)	62.03%	35.74%
Smira	August 2014	Licensure Examination for Teachers (Secondary)	52.33%	34.40%
Smira	June 2014	Agriculturist Board Examination	40.00%	36.00%
Smira	October 2014	Criminologist Licensure Examination	100.00%	43.44%
Andrews	May 2015	Licensure Examination for Teachers (Elementary)	67.14%	27.42%
Andrews	May 2015	Licensure Examination for Teachers (Secondary)	54.95%	31.63%
Andrews	May 2015	CPA Board Examination	0.00%	35.78%
Aparri	May 2015	Licensure Examination for Teachers (Elementary)	33.33%	40.91%
Aparri	March 2015	Licensure Examination for Teachers (Secondary)	85.71%	31.63%
Aparri	April 2015 *	Criminologist Licensure Examination		
Carig	May 2015	Chemical Engineer Licensure Examination	0.00%	59.01%
Carig	April 2015	Electronics Engineer Licensure Examination	0.00%	34.95%
Carig	May 2015	Civil Engineer Board Examination	0.00%	31.57%
Carig	April 2015	Electrical Engineer Board Examination	0.00%	46.87%
Gonzaga	May 2015	Licensure Examination for Teachers (Elementary)	0.00%	27.42%
Gonzaga	May 2015	Licensure Examination for Teachers (Secondary)	61.54%	31.63%
Gonzaga	June 2015	Agriculturist Board Examination	14.29%	31.05%
Gonzaga	April 2015	Criminologist Licensure Examination	0.00%	29.51%
Lallo	May 2015	Licensure Examination for Teachers (Elementary)	0.00%	27.42%
Lallo	May 2015	Licensure Examination for Teachers (Secondary)	36.36%	31.63%
Lallo	June 2015	Agriculturist Board Examination	33.33%	31.05%
Lasam	May 2015	Licensure Examination for Teachers (Elementary)	83.33%	27.42%
Lasam	May 2015	Licensure Examination for Teachers (Secondary)	12.50%	31.63%
Piat	May 2015	Licensure Examination for Teachers (Elementary)	50.00%	27.42%
Piat	May 2015	Licensure Examination for Teachers (Secondary)	27.27%	31.63%
Piat	June 2015	Agriculturist Board Examination	23.40%	31.05%
Piat	April 2015	Criminologist Licensure Examination	100.00%	29.51%
Smira	May 2015	Licensure Examination for Teachers (Elementary)	50.00%	27.42%
Smira	May 2015	Licensure Examination for Teachers (Secondary)	60.00%	31.63%
Smira	June 2015	Agriculturist Board Examination	15.15%	31.05%

\* No examinees from CSU

# Faculty Profile and Trainings

At present, CSU has a total of 1,071 faculty members, 199 of whom have doctorate degrees (Table 9) while 381 and 491 faculty members' with master's and bachelor's degrees, respectively. The University maintained 653 part-time faculty members this year to complement the number of permanent faculty members and to meet the growing student population.

CSU recognizes the necessity to upgrade the faculty's competencies and strengthen their skills in their respective fields of expertise. After all, the faculty is the backbone of any University. Recognizing that strengthening University's curricular offerings mean continuous honing of the faculty members, avenues for their development were explored. For a quick view on the number of seminars attend by the faculty members, read Table 10.

Table 9. Distribution of faculty members by educational attainment 2014-2015.

Campus	Bacc		Masteral		Doctoral		Total	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Andrews	104	27.30	160	32.59	64	32.16	328	30.63
Aparri	33	8.66	59	12.02	32	16.08	124	11.58
Carig	126	33.07	135	27.49	40	20.10	301	28.10
Gonzaga	13	3.41	46	9.37	8	4.02	67	6.26
Lal-lo	17	4.46	19	3.87	10	5.03	46	4.30
Lasam	10	2.62	10	2.04	4	2.01	24	2.24
Piat	18	4.72	23	4.68	14	7.04	55	5.14
S. Mira	60	15.75	39	7.94	27	13.57	126	11.76
Total	381	100.00	491	100.00	199	100.00	1071	100.00



## Academic Affairs Office holds workshop on OBE syllabi writing

The University recognizes the need for the integration of Outcomes-Based Education (OBE) into its curricula as provided for in the Commission on Higher Education's Memorandum Order No. 46 titled "Policy Standard to Enhance Quality Assurance (QA) In Philippine Higher Education through Outcomes-Based and Typology-Based QA."

To address this need, the Academic Affairs Office (AAO) conducted a seminar-workshop on OBE syllabi writing for the curriculum planners and developers of the University on June 23-24, 2015 at the CSU Andrews Amphitheater.



## Dean Capili is PRC's 2015 Most Outstanding Medical Technology Professional

There's this oxymoron which says: "People have one thing in common: they are all different." Yet, someone in Cagayan State University proves to be much different that he stands tall among his colleagues.

A multi-awarded professional in his field of specialization, he has emerged as the person to beat in terms of track record on quality

performance in his trade and accolades received.

That man is the one and only DR. JULIUS T. CAPILI, Dean of the College of Allied Health Sciences. Just recently, Dr. Capili has once again received another award as MOST OUTSTANDING MEDICAL TECHNOLOGY PROFESSIONAL, this time, from the Professional Regulations Commission, for his exemplary professional, social and service contributions to the community at large as attested by the Philippine Association of Medical Technologists (PAMET) Inc., the same organization that nominated him for the much sought after award. Dr. Capili personally received the award last June 18, 2015 at the Manila Hotel during the PRC's 42nd Anniversary Celebration.



# 2014-2015 - ANNUAL REPORT



## CSU holds regional skills olympics, trade fair, workshop on technical education

The College of Industrial Technology in Carig sponsored a Skills Olympics and Trade Fair on March 10 with judges coming from Technical Education and Skills Development Authority.

The first was the Olympics Skills and Trade Fair on March 10 with judges coming from the Technical Education and Skills Development Authority (TESDA) and experts from other academic institutions.

Table 10. Number of Seminars and Trainings attended by CSU faculty.

Campus	International		National		Regional/Local		Total	
	Events	Participants	Events	Participants	Events	Participants	Events	Participants
Andrews	9	16	56	90	10	10	75	116
Aparri	1	1	6	15	19	35	26	51
Carig	10	20	89	164	30	94	129	278
Gonzaga	1	1	17	27	43	73	61	101
Lal-lo	3	8	4	7	20	82	27	97
Lasam	0	0	4	8	12	29	16	37
Piat	0	0	0	0	3	3	3	3
S. Mira	0	0	0	0	3	29	3	29
<b>Total</b>	<b>24</b>	<b>46</b>	<b>176</b>	<b>311</b>	<b>140</b>	<b>355</b>	<b>340</b>	<b>712</b>

## President Quilang sends 35 delegates to AACCUP accreditors' Training on Outcomes-Based Quality Assurance

This is part of the President's continuous support to the accreditation efforts of the University with the Accrediting Agency of Chartered Colleges and Universities of the Philippines, Inc. (AACCUP), the host institution and the agency that accredited CSU's 73 programs, 37 of which are awarded Candidate Status, 21 are Level I Accredited Status, and 15 with Level II Re-Accredited Status.

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21 are Level I Accredited Status, and 15 with Level II Re-Accredited Status.

# RESEARCH SERVICES

## The CSU R&D Programs Vision, Mission and Objectives

### Vision, Mission and Objectives of the CSU Research Programs

The External and Internal Environment Assessments results were analysed using the Strength, Weaknesses, Opportunities and Threats (SWOT). The SWOT results lead to the formation of the Vision, Mission and Objectives of the CSU Research Programs.

#### Vision

CSU as the Science and Innovation Hub of the Cagayan Valley Region.

#### Mission

To foster a world-class environment conducive for learning and scholarly discovery, cultivation, dissemination and application of leading edge science and innovations for the inclusive agro-industrial development of the Cagayan Valley Region.

#### Objectives

- To realize the vision and mission of Research, the following objectives are set
- Enhance the quality of Research performance of the University,
- Improve the relevance and significance of CSU research in the communities, organizations and industries in Cagayan Valley,
- Improve the effectiveness of the Research Management processes and projects,
- Increase research and innovation Capacity and Capability, and
- Promote research and Innovation Resource generation and management.

### R & D Thematic Agenda

To achieve the objectives set forth, CSU shall adopt a package of R&D Thematic agenda addressing the challenges and opportunities identified previously as it concerns several sectors of local, regional, national and global community.

- Food Security and Safety
- Health and Nutrition
- Engineering, Industry and Energy, ICT
- Environment and Climate Change
- Business and Entrepreneurship
- Law and Governance
- Social Sciences

### R & D Programs/Projects

The R&D programs of the University are the following:

- Agriculture - Dairy Cattle, Dairy goat, Carabao, Organic Agriculture, Rainfed Farming Systems, Coconut
- Fisheries - Aquaculture and Marine
- Engineering & Industry – Energy, Mechanization, and Precision Engineering, Postharvest, Climate Change
- Health - Herbal medicine, Tropical Diseases



- Teacher Education - Outcome based Education and ICT Embedded Knowledge Delivery Systems
- Policy research - Development Policy Research
- Governance - Service Delivery Systems

### CSU Flagship Programs/Commodities (per Campus)

- CSU Carig- Environmental Protection and Conservation
- CSU Andrews - Education, Business And Health
- CSU Lal-lo - High value Commercial Crops
- Sanchez Mira – Coconut
- CSU Piat - Meat & Dairy
- CSU Aparri - Aqua-Marine
- CSU Gonzaga - Agro-Forestry
- CSU-Lasam- Cacao & Banana

### Research Linkages and Alliances

CSU, in its bid to harness new knowledge and technologies generated, further support the growth of research and development in education, agriculture and natural resources, intensified linkages with international institutions, national as well as regional and local research systems to facilitate exchange of research findings and brought about opportunities for the development of R&D programs of mutual interest. Moreover, these linkages and alliances generated resources for the University.

- UNDP-World Food Program (WFP)
- Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD-DOST)
- Cagayan Valley Agricultural Resource Research and Development (CVARRD)
- Cagayan Valley Industry and Energy Research and Development Consortium (CVIERDEC)
- Cagayan Valley Health Research Consortium
- Fisheries Research Network
- Bureau of Fisheries and Aquatic Resources
- Department of Agriculture-Bureau of Agricultural Research (DA-BAR)
- Department of Agriculture, RO2 (DA)
- Department of Science and Technology, RO2 (DOST)
- Department of Environment and Natural Resources, RO2 (DENR)
- Department of Health (DOH)
- Commission on Higher Education (CHED)
- Local Government Units of Cagayan (LGUs)
- Provincial Government Units of Cagayan
- Solid North-ASCU
- Collaborative Partner Universities
- UPLB, Philippines
- Kosin University, Korea
- National Taiwan Ocean University
- University of the Philippines - Visayas

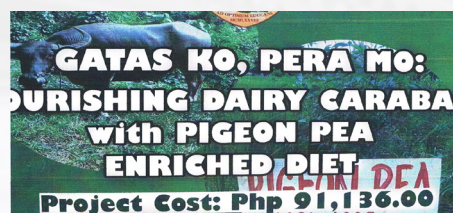


# On-going Researches

In 2014, a total of 94 researches in the University were conducted/ implemented from three funding sources: 27 from Special Budget (Fund 164), 38 from General Appropriations Act(GAA) and 29 from External Funds (Table 11).

Table 11. Total Number of Researches in 2014 - 2015.

Campus	Fund Source			Total
	Special Budget (SB) Fund 164	GAA (Fund101)	External	
Andrews	-	7	4	11
Aparri	-	5	2	7
Carig	6	13	9	28
Gonzaga	-	3	2	5
Lal-lo		5	1	6
Lasam		2	1	3
Piat		2	7	9
Sanchez Mira	21	1	3	25
<b>Total</b>	<b>27</b>	<b>38</b>	<b>29</b>	<b>94</b>



# Completed Researches

Researches completed on time for 2014 increased as researchers from the different 8 (eight) campuses became highly motivated and capacitated. There was also a more systematic, harmonized and output-oriented monitoring and evaluation process institutionalized in the University Research department.

**DOST REGION 02**

**ENHANCEMENT OF THE HIGH IMPACT PROGRAM ON COCONUT**

**PROGRAM COMPONENTS:**

- INSTITUTIONAL DEVELOPMENT/ ORGANIZATION OF COCO FARMERS & COMMUNITIES
- TRAINING
- COASTAL COCO AREA REHABILITATION
- COCO-BASED INCOME GENERATING TECHNOLOGIES ( FOOD, GIFT & HOME DECORS, & INDUSTRIAL PRODUCTS)
- COCONUT VINEGAR PRODUCTION (IN-CAMPUS & COMMUNITY-BASED)
- ADVOCACY & PROMOTIONS
- PARTNERSHIPS & COLLABORATIONS

**"REVITALIZING THE COCONUT INDUSTRY IN NORTHWESTERN CAGAYAN"**



Table 12. Number of Completed Researches in 2014.

Campus	Accomplishment	Quarterly Accomplishment			
		1st	2nd	3rd	4th
Andrews	17	2	4	6	5
Aparri	13	1	3	4	5
Carig	14	3	4	3	4
Gonzaga	7	1	1	2	3
Lal-lo	11		3	4	4
Lasam	4		1	2	1
Piat	8	1	1	3	3
Sanchez Mira	5		1	2	2
<b>Total</b>	<b>79</b>	<b>8</b>	<b>18</b>	<b>26</b>	<b>27</b>



Table 13. Number of Proposals Evaluated for 2014 - 2015.

Campus	Number	Percent
Andrews	34	18.0%
Aparri	28	15.0%
Carig	57	30.0%
Gonzaga	18	9.0%
Lal-lo	5	3.0%
Lasam	4	2.0%
Piat	13	7.0%
Sanchez Mira	30	16.0%
<b>Total</b>	<b>189</b>	<b>100.00%</b>



## Proposals Evaluated

Evaluation of research proposals is being undertaken to ensure that the University's research and development objectives are attained leading to the selection of researches which will be funded and undertaken. A total of 189 proposals were evaluated for the year in review (Table 13.)



Table 14. Total Number of Researches in 2014 - 2015.

Campus	Number of Papers Presented			Total
	Completed	On-going	Proposals	
Andrews	18	9	34	61
Aparri	7	9	28	44
Carig	4	13	57	74
Gonzaga	1	9	18	28
Lal-lo	5	12	5	22
Lasam	1	3	4	7
Piat	1	10	13	24
Sanchez Mira	3	5	30	38
<b>Total</b>	<b>40</b>	<b>70</b>	<b>189</b>	<b>299</b>

## Research Monitoring and Evaluation

The successful attainment of research objectives largely depends on the timely ability to correct problems arising during the R&D implementation process. The R&D Office developed an institutional monitoring and evaluation scheme to address problems arising during the implementation period of all R&D projects i.e. R&D in-house reviews and evaluation, on-site evaluation of on-going R&D projects and Quarterly R&D progress/accomplishments reports.

# RESEARCH SERVICES



## Papers Presented

Table 15. Number of papers presented in different fora for CY 2014

Campus	International	National	Regional	TOTAL
Andrews	5	11	-	16
Aparri	7	6	3	16
Carig	11	10	1	22
Gonzaga	1	3	-	4
Lal-lo	11	4	-	15
Lasam	-	-	-	-
Piat	-	3	-	3
Sanchez Mira	7	11	-	18
<b>Total</b>	<b>42</b>	<b>48</b>	<b>4</b>	<b>94</b>

## Research Outputs Published

For CY 2014, a total of 24 research papers were published in international, and national refereed journals/proceedings while, 14 research papers were published locally either in the University research journals and other local journals.

Table 16. Number of Research outputs published in 2014.

Campus	International	National	Regional	Local	TOTAL
Andrews	3	-	-	4	7
Aparri	3	-	-	1	4
Carig	11	-	-	1	12
Gonzaga	1	-	-	6	7
Lal-lo	4	-	-	-	4
Lasam	-	-	-	1	-
Piat	-	-	-	1	-
Sanchez Mira	-	2	-	-	2
<b>Total</b>	<b>22</b>	<b>2</b>	<b>-</b>	<b>14</b>	<b>38</b>



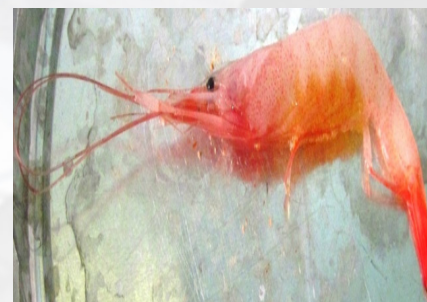


# Research outputs patented/ copyrights applied

In its efforts to protect its research outputs and other inventions and to promote the truly original works and outputs of its in-house scientists/researchers for commercialization, CSU worked for the patenting/copyright of some 121 outputs with the Intellectual Property Office this year.

Table 17. Number of outputs applied for patenting/copyright in 2014 - 2015.

Campus	Outputs applied for patenting	Outputs applied for copyright	Total
Andrews	8	28	36
Aparri	-	34	34
Carig	9	5	14
Gonzaga	1	2	3
Lal-lo	6	18	24
Lasam	-	-	-
Piat	-	10	10
S. Mira	-	-	-
<b>Total</b>	<b>24</b>	<b>97</b>	<b>121</b>







# R and D Funds Generated

A total of Php 30.01 million was generated from 29 R&D projects funded by various international and national agencies. Two projects with accumulated cost of 4.7 million were funded by the Asian Development Bank (ADB) and the United Nations Development Program (UNDP); three projects with a total cost of P 8 million were funded by Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (PCARRD); nine projects with a total cost of P 4.12 million were funded by Department of Agriculture (DA-RO2); six projects with a total cost of P 2.3 million were funded by DOST; three projects with total cost of 2.31M were funded by CHED; and one project each was funded by DBP, DENR, DAR, DMMSU and BSMW with total cost of P 6.6 million.

Table 18. Research and Development Funds Generated in 2014 - 2015.

Project Title	Fund Source	Total Budget	
1. Post Harvest Mechanization and Storage Support System for Peanut in the Philippines	PCARRD	5,476,512.10	
2. Resilience Capacity Building for Cities & Municipalities to Reduce Disaster Risks from Climate Change & Natural Hazards	UNDP	2,200,000.00	
3. Vulnerability Assessment and Mapping of the Drought Prone Rice Agro-Ecological Zones in Cagayan	DA	1,050,000.00	
4. Validation and Testing of a GIS-Based Decision Support System	CHED	400,000.00	
5. Expanding the Tropical Fruit Industry in Cagayan: Establishment of Genebank for Tropical Fruit Trees in CSU-Sanchez Mira (Phase 1)	CHED	1,350,000.00	
6. Upland Rice Production in Cagayan: Sustaining Aringay Supply at the Household	DA	300,000.00	
7. Factors Influencing Rice Productivity in Region 02: The Case of Cagayan Province	DA	900,000.00	
8. Establishment of Organic Vegetable Seed Production System in CSU Piat	PCARRD	1,600,000.00	
9. Commercialization of Philippine Chicken	DA	350,000.00	
10. Commercialization of Philippine Native Pigs	DA	350,000.00	
11. Activity of Theobroma Cacao L. Seeds, Pulp and Hull Extract Against Different Strains of Mycobacterium Tuberculosis	DOST PCHRD/DOST	300,000.00	
12. Nasal Carriage and Characterization of Methicillin-resistant Staphylococcus Aureus (MRSA) Among Hospital Nurses of Tuguegarao City, Cagayan: A Cross Sectional Study	DOST-PCHRD/DOST	242,000.00	



The Effectivity of Theobroma cacao L. Seeds, Pulp and Seed Hull Extract in Inhibiting Tumor Cell Formation	DOST-PCHRD/DOST	150,000.00	
Establishment of DOST-CSU Innovation Center	DOST	1,234,464.00	
Ludong Fish Conservation and Protection Research Project	CHED	560,000.00	
Integrated Nutrient Management of Upland rice	DA	200,000.00	
Production trial, Utilization and Seed System of Different ICRISAT Pigeon Pea Varieties	DA	68,000.00	
Fruits of the Future; Characterization, propagation and commercialization of Indigenous Fruits of Cagayan Valley	DA	300,000.00	
Development of Food Products from DOST Developed Food Processing Equipment Utilizing Cagayan Valley Local Resources	CVIEERD-DOST	350,000.00	
DAR-ARCESS Market-Based Agricultural technologies cum Agricultural Extension Services for the Third Congressional District of Cagayan with SOWESPACO MPC as the Hub- ARBO	DAR	2,000,000.00	
Aramang: Aparri Cagayan River Estuary Assessment Management and Governance	ADB/DENR	2,499,000.00	
Corridor-Wide Humpback Whale Conservation Area and Community-Based Marine Protected Area	DENR	1,300,000.00	
Adoption of S&T-Based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Saba, Lakatan and Latundan in Region 02	PCARRD	926,768.00	
DBP Forest Project	DBP	3,065,872.50	
Adaptability of Different Sahod Ulan Rice Varieties Using Nutrient Management	IRRI/PhilRice	88,000.00	
Technological Constraints to Corn Production: Its Impact to Corn Growers in Region 02	DA-R02	600,000.00	
Technology Adoption, Promotion and Production of Alternative Sugar from Nipa Sap in Rural Communities of Northwestern Cagayan	DOST R02	2,000,000.00	
Floral Phenology of Bee Pasture Plants in Northwestern Cagayan	DMMSU	150,000.00	
Mokusako Technology	BSWM	44,000.00	
Total		30,054,616.60	

# RESEARCH SERVICES

## R & D Awards Received

Some 21 faculty researchers received awards from knowledge and technologies generated. Their names are listed.

Table 19. List of faculty researchers who received awards in 2014.

Title of Award	Title of project/paper	Faculty-awardee	Title of	Category
Best Paper	Analytic Hierarchy process (AHP) in Spatial Modeling for Floodplain Risk Assessment	Generino P. Siddayao	International Conference on Knowledge Engineering and Application (ICKEA 2014)	International
Best Paper	Management Practices and Business Performance of Family-Owned Enterprises	Jay F. Omotoy	10th Asian Business Research Conference,	International
Best Paper	Management Practices and Business Performance of Family-Owned Enterprises	Jay F. Omotoy	2014 National Marketing Educators Conference and Business Research Summit	National
3rd Place-Research paper poster Exhibit	Morphological Changes of Golden Apple Snail ( <i>Pomacea caniculata</i> ) Gonads Caused by Abortifacient Plant extracts	Andy Catulin, Rocelle S. Baliuag, Shainen Mae S. Roque and Chris Sibal	1st Biennial Health Research Symposium	National
3rd Best paper for Development	Estimating Earthquake Risk: The Use of Rapid Earthquake Damage Assessment System (REDAS) in the Province of Cagayan	*Policarpio L. Maborang, Jr., Orlando F. Balderama, Arthur G. Ibañez, Denis V. Policar, Jovylyn C. Amor	25th Regional Symposium on Research, Development, and Extension Highlights	Regional
Best Paper Education Category	Preferential Interpretation and Structure of Ambiguous Sentence in English Among First Year Students of Bachelor of Science in Hospitality Industry Management	Romel Tagumasi	2nd National Multidisciplinary Research Conference	National





Best Paper Agriculture Category	Technological and Socio-Economic Constraints to Corn Production: Its Impact to Corn Growers in Region 02"	Susan R. Matipo	National Multidisciplinary Conference, Vigan City	National
Best Paper Social Science Category	The Effect of Collaborative Learning to the Achievement of Students in Literature	Narcitas B. Ouano	National Multidisciplinary Conference, Vigan City	National
Best Paper Natural Science Category	Pelletized 40% Moringa oleifera Leaf Feed-Base Component in Newly Weaned Upgraded Native Goats(Capra hircus , L.)	Froilan Pacris, Jr.	National Multidisciplinary Conference, Vigan City	National
1st Best Paper for Research	Organic Fertilizer and Microbials for Improved	Jose D. Guzman & Osmond Narag	CSU In-House Review	Local
2nd Best paper for Research	Technological and Socio-Economic Constraints to Corn Production: Its Impact to Corn Growers in Region 02"	8. Romillo N. Trinidad & Avelina T. Antonio	CSU In-House Review	Local
3rd Best Paper for Research	Catch Composition of Filter Net Fisheries in Coastal Waters of Aparri, Cagayan	9.Eunice Dalud-dung, et.al.	CSU In-House Review	Local
1st Best Paper for Development	Sexual Risk Behaviors of Young People of Cagayan	10.Nelia Z. Cauilan, Antonio I. Tamayao	CSU IN-House Review	Local
2nd Best Paper for Development	Enhancing Student's Mathematics Performance and Attitude through the Integration of Outdoor Mathematics in the Teaching of Algebra	11.Manuel Belango	CSU IN-House Review	Local
3rd Best Paper for Development	Initial Institutionalization of Results-Based Performance Management System (RBPMS) in Public Higher Education: The Cagayan State University Experience	12.Jaypee A. Alegado	CSU IN-House Review	Local



# Signed Memorandum of Agreements/ Memorandum of Understanding

The University has entered into 29 Memorandum of Agreements/Understanding with international and national organizations for the conduct of research and development projects and other research and academic collaborations.

Table 20. List of MOAs/MOUs signed in 2014 - 2015.

Agency	Nature of Linkage	Research projects/Activities
PCARRD	Conduct of Research	Post Harvest Mechanization and Storage Support System for Peanut in the Philippines
UNDP	Conduct of Research	Resilience Capacity Building for Cities & Municipalities to Reduce Disaster Risks from Climate Change & Natural Hazards
DA	Conduct of Research	Vulnerability Assessment and Mapping of the Drought Prone Rice Agro-Ecological Zones in Cagayan
CHED	Conduct of Research	Validation and Testing of a GIS-Based Decision Support System
CHED	Conduct of Research	Expanding the Tropical Fruit Industry in Cagayan: Establishment of Genebank for Tropical Fruit Trees in CSU-Sanchez Mira(Phase 1)
DA	Conduct of Research	Upland Rice Production in Cagayan: Sustaining Aringay Supply at the Household
DA	Conduct of Research	Factors Influencing Rice Productivity in Region 02: The Case of Cagayan Province
PCARRD	Conduct of Research	Establishment of Organic Vegetable Seed Production System in CSU Piat
DA	Conduct of Research	Commercialization of Philippine Chicken
DA	Conduct of Research	Commercialization of Philippine Native Pigs
DOST-PCHRD/ DOST	Conduct of Research	Activity of Theobroma Cacao L. Seeds, Pulp and Hull Extract Against Different Strains of Mycobacterium Tuberculosis
DOST-PCHRD/ DOST	Conduct of Research	Nasal Carriage and Characterization of Methicillin-resistant Staphylococcus Aureus (MRSA) Among Hospital Nurses of Tuguegarao City, Cagayan: A Cross Sectional Study





DOST-PCHRD/ DOST	Conduct of Research	The Effectivity of Theobroma cacao L. Seeds, Pulp and Seed Hull Extract in Inhibiting Tumor Cell Formation
DOST	Conduct of Research	Establishment of DOST-CSU Innovation Center
CHED	Conduct of Research	Ludong Fish Conservation and Protection Research Project
DA	Conduct of Research	Integrated Nutrient Management of Upland rice
DA	Conduct of Research	Production trial, Utilization and Seed System of Different ICRISAT Pigeon Pea Varieties
DA	Conduct of Research	Fruits of the Future; Characterization, propagation and commercialization of Indigenous Fruits of Cagayan Valley
CVIEERD- DOST	Conduct of Research	Development of Food Products from DOST Developed Food Processing Equipment Utilizing Cagayan Valley Local Resources
DAR	Conduct of Research	DAR-ARCESS Market-Based Agricultural technologies cum Agricultural Extension Services for the Third Congressional; District of Cagayan with SOWESPACO MPC as the Hub- ARBO
ADB/DENR	Conduct of Research	Aramang: Aparri Cagayan River Estuary Assessment Management and Governance
DENR	Conduct of Research	Corridor-Wide Humpback Whale Conservation Area and Community-Based Marine Protected Area
PCARRD	Conduct of Research	Adoption of S&T-Based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Saba, Lakatan and Latundan in Region 02
DBP	Conduct of Research	DBP Forest Project
IRRI/PhilRice	Conduct of Research	Adaptability of Different Sahod Ulan Rice Varieties Using Nutrient Management
DA-R02	Conduct of Research	Technological Constraints to Corn Production: Its Impact to Corn Growers in Region 02
DOST R02	Conduct of Research	Technology Adoption, Promotion and Production of Alternative Sugar from Nipa Sap in Rural Communities of Northwestern Cagayan
DMMSU	Conduct of Research	Floral Phenology of Bee Pasture Plants in Northwestern Cagayan
BSWM	Conduct of Research	Mokusako Technology

# RESEARCH SERVICES

## Capability Building and Governance

The University R&D in its aim to produce high –end quality researches continues to find avenues to further hone the capabilities of the university faculty researchers. For CY 2014, a total of 195 trainings and seminars were attended in by R&DE staff in different dates and venues sponsored by different organizations.

Table 21. Number of Seminars, Training, Workshops, Fora and Meetings Attended in 2014.

Campus	International	National	Regional	Local	TOTAL
Andrews	7	11	-	10	28
Aparri	6	6	3	10	25
Carig	13	10	1	10	34
Gonzaga	1	5	2	10	18
Lal-lo	11	4	1	11	27
Lasam	-	1	1	7	9
Piat	-	14	1	11	26
Sanchez Mira	7	11	-	10	28
<b>Total</b>	<b>45</b>	<b>62</b>	<b>9</b>	<b>79</b>	<b>195</b>





## CSU RDET to host 1st research and innovation confab

The Research and Development, Extension and Training Office (RDET) of the Cagayan State University is all set for the First Association of State College and Universities - Solid North (ASCU-SN) Research and Innovation Conference to be held on Dec. 4-5 at Ivory Hotel and Suites, Buntun, Tuguegarao City.

Themed as "Sustaining Excellence in ASCU in the Solid North Through Multi-Disciplinary Research and Innovations," the conference aims to present and disseminate research and development outputs for utilization and commercialization.

## DOST declares CSU as Region's Tuklas Lunas Development Center

The Department of Science and Technology (DOST) has declared the Cagayan State University as the official Tuklas Lunas Development Center (TLDC) of the Cagayan Valley Region after passing the evaluation process carried out by the department's Philippine Center for Health Research and Development (PCHRD).

Vice President for Research and Development Dr. Jose Guzman said CSU will receive from DOST-PCHRD P13 million worth of research equipment in a ceremony set on March 17, 2015.

Additional funding for approved research proposal will come later, he said.

He said TLDC will pave the way for the discovery of new drugs from natural substances for tropical and other diseases including cancer.

"TLDC will serve as a convergent point for collaborative efforts among research institutions in the region along drug exploration and discovery using terrestrial indigenous resources of the region," the vice president said.



## 2 CSU Lal-lo researches present paper at 1st int'l pigeonpea confab

Two researchers from Cagayan State University at Lal-lo presented their research at the 1st International Pigeonpea Congress held at Teatro Ilocandia in Mariano Marcos State University on Dec. 16-18, 2014.

Prof. Rogelio T. Tamayo, campus executive officer of CSU Lal-lo, and Mr. Ferdinand Bulusan from the College of Teacher Education shared the results of their study titled "Pigeonpea Growing: Knowledge, Attitude, and Practices of Farmers in Northern Philippines." and development outputs for utilization and commercialization.

According to them, the results of their study become a basis for the creation of a technology-transfer program of the campus regarding pigeonpea growing.

"Our study is so timely because it jibes with the primordial objective of the Department of Agriculture and other leading institutions to promote pigeonpea in Asia," Tamayo, also a faculty member of the College of Agriculture, explained when asked about the significance of their study.





## Three products at FIC get trademarks

The Intellectual Property Office (IPO) approved the trademark application of three products of the CSU Food Innovation Center (FIC). These are the Seaweed Soybean Tart (S-Start), Nutron and Nutricurls. Today, FIC has 55 developed products, 20 of which are readied for patent and trademark.



## DOST-PCHRD visits CSU-TLDC

On April 15, the Tuklas Lunas Development Center (TLDC) at CSU Carig welcomed Dr. Antonio Ligsay, chief of the research and management division of DOST, and Mr. Rogelio Guaring II, project coordinator of TLDCs. The two met with Vice President for RDET Jose Guzman, University Research Director Ramelo Ramirez and CEO Archimedes Articulo to listen to the TLDC research plans and activities, including the presentation of a research proposal to be financed by DOST.



## CSU, DOST host 'Building Science Nation Tour 2015'

To show how significant science and technology is in the society, CSU and DOST partnered to bring together students, professionals and political leaders in one big event dubbed "Building Science Tour 2015" on March 24, 2015. The activity was packed with numerous events: Lakbay Aral, Science Film Viewing, a summit honoring ambassadors and scholars of DOST, and press conference with DOST Sec. Mario G. Montejo, who, during the program at the Red Eagle Gymnasium, was accompanied by Justice Sec. Leila De Lima and Presidential Legislative Liaison Sec. Manuel Mamba.







# TECHNICAL ADVISORY & EXTENSION

## I. Introduction

The implementation of extension programs of the university in 2014 saw some changes and gains in keeping with its vision and mission. As the university gradually evolved into a comprehensive status due to the various programs it offers, it also increased its accessibility to clients and stakeholders of a wide array of programs and services arising from the various disciplinary strength of colleges and campuses. This status has opened good partnerships/collaborations with individuals, communities and industries for development initiatives in the province.

Amidst the challenges in extension delivery posed by changing situations and circumstances, the university has kept its pace to contribute in addressing these challenges to become responsive and relevant.

In order to establish a specific focus in project implementation, the university has identified banner programs for each campus based on their existing resources and environment. This development effort is now solving some problems of duplication and fragmented extension activities. Today, the university has identified eight (8) banner programs, a strategic move for each campus to enjoy an advantage to work for its own development and earn their own distinction.

Under the **ONE COLLEGE, ONE TOWN** modality, a brainchild of the President, the university has maximized its resources complemented by the Local Government Units and other entities to produce the desired outcomes and impacts.

This year, the Board of Regents approved with institutional funding of at least 46 projects for implementation in the different campuses/colleges. It has also included gender responsive extension projects to address issues and concerns in Gender and Development.

Sincere acknowledgement goes to Administration led by President Romeo R. Quilang whose heart is always dedicated to the marginal sectors and underserved communities in the province. The overwhelming wholehearted support motivated everyone to share in the achievement of a common goal and shared vision of poverty reduction and empowerment of the marginal sectors of our population.





## Non-Degree Trainings

The Cagayan State University is an institution of higher learning with a four-fold function - instruction, research, extension and production, that continuously pursued its commitment to develop/empower individuals and communities by providing access to the university programs and projects focused on its expertise/competence. These are done through various human resources development strategies that aimed to transfer information and technologies generated that seek to address the needs and problems for individuals and communities.

For the CY 2014, there were 118 non-degree trainings conducted with 4171 participants and 4841.25 weighted length of training. Some 3216 clients were provided with technical assistance/ advisory of various forms.

## Community-Based Cacao Production and Utilization

The Cacao Project was started in 2013 and implemented by four campuses of the university (Lallo, Piat, Lasam and Tuguegarao) . in at least 7 municipalities of Cagayan namely Tuguegarao City, Piat, Rizal, Tuao, Lasam, Lallo production in the province of Cagayan was made massive .

In general, the project aimed to increase the production and utilization of cacao in the province through the introduction of S & T and GAP.

Specifically, it aimed to:

1. Establish a campus-based and community-based cacao nursery;
2. Establish a demonstration area for cacao showcasing science and technology interventions and good agricultural practices to increase production;
3. Enhance the knowledge and skills of farmers in cacao production and utilization;

Table 22. Trainings conducted.

Training/ Activity	No. of Participants	Research	Campus Involved
Training on Cacao Production	13	May 20, 2014	CSU Lallo
Training on Cacao Tablea Enriched with Peanut	15	Sept. 20, 2014	CSU Lasam
Cacao Tablea Production	15	November 20, 2014	CSU Lasam
Cacao Wine Processing		Dec. 29, 2014	CSU Lallo



Table 23. Trainings conducted.

Campus	No. of Farmer/ Beneficiaries
CSU Lasam	20
CSU Lallo	20
CSU Piat	5
CSU Tuguegarao	3



Table 24. Cacao Production.

Campus	Accomplishment
CSU Lasam	<ul style="list-style-type: none"> <li>Established a nursery and produced at least 20,000 seedlings;</li> <li>Organized cacao growers in Lasam and distributed 15,000 seedlings for the 20 farmer beneficiaries/co-operators;</li> <li>Seedlings distributed are already one year old;</li> <li>Conducted trainings on the POT for cacao production.</li> </ul>
CSU Piat	<ul style="list-style-type: none"> <li>Produced 5,000 cacao seedlings</li> <li>Conducted trainings to prospective cacao growers &amp; co-operators in 3 municipalities in Itawes District</li> <li>Distributed 2,000 seedlings and still on the process of producing seedlings on staggered basis.</li> </ul>
CSU Lal-lo	<ul style="list-style-type: none"> <li>Produced 20,000 cacao seedlings;</li> <li>Conducted trainings on cacao production and utilization;</li> <li>Established a techno demo for cacao in the campus;</li> <li>Developed products from cacao (with assistance from DOST);</li> <li>Distributed at least 10,000 seedlings to farmer co-operators following GAP and interventions in cacao production;</li> <li>Organized cacao growers in the area.</li> </ul>



Technical assistance on packaging and labelling was also provided to cacao growers. Below are some of the products of farmers assisted by the university:



**A farmer-co-operator making cacao tablea**



**Cacao wine**



**Cacao tablea**



**Cacao beans**



# 2014-2015 ANNUAL REPORT

## Pineapple Production and Utilization

Pineapple is one of the most common fruits produced in the northeastern part of Cagayan particularly on the hilly areas of Sta. Ana, Sta. Teresita and Gonzaga. From a resource inventory data conducted by the university, the commodity occupies an area of 2265 hectares. This is one of the banner programs of CSU Gonzaga where trainings, technical assistance, community organizing and technology demonstration areas are being conducted and established.

About 21 pineapple farmers from Sta. Ana and Gonzaga were assisted by the technical experts of the university particularly on recent technologies in pineapple production, pineapple processing and value adding.



Table 25. Trainings conducted.

Training/ Activity	No. of Participants	Research	Venue
Pineapple Production & Field Day	51	06/27/14	Sta . Ana
Pineapple Processing	31	07/10-11/14	Sta. Ana



Trainings on pineapple processing



There are technology demonstration areas established in Sta. Ana and Sta. Teresita and Gonzaga to showcase interventions on distance of planting, induced flowering among others. A field day was also conducted in one of the technology demonstration areas particularly in Sta. Ana.

