

# Benguet State University 2018 ANNUAL REPORT

4 QUALITY  
EDUCATION



8 GOOD JOBS AND  
ECONOMIC GROWTH



10 REDUCED  
INEQUALITIES



16 PEACE AND  
JUSTICE



13 CLIMATE  
ACTION



## VISION

A PREMIER UNIVERSITY delivering world-class education that promotes sustainable development amidst climate change

## MISSION

To provide quality education to enhance food security, sustainable communities, industry innovation, climate resilience, gender equality, institutional development and partnerships

## GOALS AND OBJECTIVES

### Goal I. To develop proactive programs to ensure relevant quality education

#### Objectives:

- 1.To benchmark curricular and co-curricular programs with national and international standards
- 2.To develop alternative learning experiences to enhance skills that match industry needs
- 3.To develop innovative and relevant curricular and co-curricular programs
- 4.To enhance proactive student welfare and development programs

### Goal II. To develop proactive programs for quality service

#### Objectives:

- 1.To enhance relevant human resource development programs
- 2.To develop effective and efficient innovative platforms for cascading information
- 3.To enhance and develop employee welfare programs

### Goal III. To enhance responsive systems and procedures for transparent institutional development

#### Objectives:

- 1.To enhance and develop innovative financial management systems
- 2.To ensure transparency in all transactions in the university
- 3.To ensure inclusive and consultative decision making

### Goal IV. To develop relevant and gender sensitive research and extension programs for institutional development, sustainable communities, climate resilience, industry innovation, and partnerships

#### Objectives:

1. To develop relevant multimedia tools in disseminating technology, knowledge and information generated from RDE programs
2. To develop relevant RDE activities that will address current problems and support cultural advocacy
3. To partner with strategic local, regional, national and international entities

### Goal V. To strengthen and expand public-private partnership

#### Objectives:

1. Sustain and pursue functional University-relation with the alumni and other organizations both in the government and non-government entities
2. To strengthen the linkage among academe, industries, LGUs and community

## CORE VALUES

Student-centered  
Leadership  
Integrity  
Diversity  
Efficiency  
Service

BOR Resolution # 2736, s. 2016

## QUALITY POLICY

Benguet State University is continuously committed to improve its Quality Management System, satisfy requirements of relevant interested parties and provide excellent service for quality education and innovative research aligned with sustainable development and client satisfaction.

BOR Resolution # 2847, s. 2018



Republic of the Philippines  
**BENGUET STATE UNIVERSITY**  
La Trinidad Benguet 2601

**HIS EXCELLENCY RODRIGO ROA DUTERTE**

President  
Republic of the Philippines  
Malacañan Palace, Manila

Dear Mr. President,

This is to submit the Benguet State University 2018 Annual Report.

The report contains the accomplishments along instruction, research, extension and production functions of the University.

Thank you for your support to the University as we continue to live up to its vision of providing world-class education and quality service.

Sincerely yours,

**FELICIANO G. CALORA, JR.**  
University President

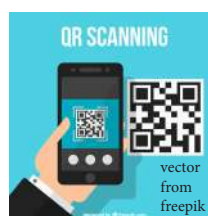
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## About the Cover

Benguet State University continuously initiates activities in support of the Sustainable Development Goals specifically on the areas of Quality Education, Decent Work and Economic Growth, Reduced Inequalities, Climate Action, Peace, Justice and Strong Institutions.

These activities include subjecting degree programs to accreditations and compliance certification and processes to ISO 9001:2015. BSU has also ventured to internationalization activities thru student and faculty exchange. Human Resource Development has also been strengthened with consideration of gender sensitivity and awareness. Research and Extension activities are also geared towards climate adaptation and mitigation. With all of these, transparency is observed and partnerships with different levels of institutions and organizations are also established.



This report uses QR Codes to share detailed sectoral reports for interested parties. To access the files use a QR Code scanner app.

## EXECUTIVE SUMMARY

The University with its students and employees continually worked to achieve several accomplishments in 2018.

To maintain quality and improve mentoring, several degree programs were subjected to AACUP accreditation and CHED certification. Degree programs were awarded different levels in which programs in Bokod and Buguias campus were also awarded Candidate status. Students were also awarded in academic contests, research presentations and sports competitions. In addition, students were also given opportunities to participate in seminars, trainings and international exchange programs. One of these programs is the SEA teacher exchange programs in which five students from the College of Teacher Educations were deployed in Southeast Asian countries for their student teaching. Collective efforts paid off in the results of licensure examinations as BSU is top performing school nationwide in the Librarian Licensure Examination and ranked fourth in the Nurse Licensure Examination. The University also yielded toppers in the Agriculture and Biosystems Engineering Examination and Librarian Examination. Several faculty members also completed their doctoral and master's degree program as assisted by CHED and University scholarships. As for internationalization efforts, three faculty members were selected in the Faculty Mobility Component of the ERASMUS+program in Spain and Lithuania.

As for the Research and Extension functions of the University, 59 researches were completed by the various centers and institutes of the sector. Many of these researches were funded by outside agencies such as USAID STRIDE, VLIR, PCAARRD among others. Also, 33 research papers were published in international and national refereed journals. Worthy to note is the approval of nine research proposals with a total fund of Php 44,611,750.28 from various national and international funding agencies. Faculty, full-time researchers and students were also awarded best papers and several awards in various levels of conferences. Knowledge products in the form of journals, booklets, briefers and primers were also launched by various researchers and extension workers of the University. There were also 81 researchers who are eligible under RA No. 8439 or the Magna Carta for Scientists, Engineers, Researchers and other S&T Personnel in Government.

A total of 136 seminars/trainings/writeshops/information dissemination activities were conducted by the various centers, institutes, and colleges of the University with a total of 8,660 participants. BSU Guidelines on Application for Hazard Allowance (BOR Resolution No. 2869, s. 2018) was also released during the year.

The Administration and Finance sector with the Offices under the President continuously supported various activities of the University. With instruction as the core process and the research and administration as the support processes, Benguet State University was awarded the ISO 9001: 2015 certificate. In addition, the University was able to reach Maturity Level 2 of the Civil Service Commission's PRIME-HRM systems and competencies in learning and development. In addition, the BSU Land Use Plan was finally approved on

April 13, 2018 through BOR Res. No. 2764, s. 2018. It now serves as a tool and reference in the preparation of operational plans. The University has also completed and repaired various infrastructures amounting to 2,917,117.00. In addition, there were several completed internal audits relative to the operational plan and follow-up audits. With a 5% allocation, the Gender and Development Office conducted orientations, trainings, mainstreaming among other activities that amounted to 30,326,200.77,

As for the Business Affairs, the various income generating projects of the University earned a total net income of Php 7,615,497.10 with the Poultry, SLS Canteen and the Marketing Center as the top three projects that earned the income. Added to that is Php 2,777,200.00 from parking fees. An Income Generating Project Manual is also underway.



# *Instruction*

# CURRICULUM AND INSTRUCTION

## A. Degree Programs and Short Courses

The University offers 71 degree programs in its three campuses. La Trinidad campus has 25 Bachelor's degree, 37 Masteral and six Doctorate programs; Bokod campus has four Bachelor's degree programs and Buguias campus has five Bachelor's degree programs offered.

In addition, the University offers six post-baccalaureate and two technical-vocational programs in the La Trinidad campus.

### *COLLEGE OF AGRICULTURE*

#### **DOCTOR OF PHILOSOPHY IN:**

Agronomy  
Horticulture

Rural Development

#### **MASTER OF SCIENCE IN:**

Agricultural Economics

Agronomy

Animal Science

Entomology

Horticulture

Plant Pathology

Rural Development

Soil Science

#### **BACHELOR OF SCIENCE IN:**

Agriculture

Agribusiness

Development Communication

#### **DIPLOMA IN:**

Agroforestry

### *COLLEGE OF ARTS AND SCIENCES*

#### **DOCTOR OF PHILOSOPHY IN:**

Language (English, Filipino)  
Science Education: (Biology)

#### **MASTER OF SCIENCE IN:**

Biology

Environmental Science

#### **BACHELOR OF SCIENCE IN:**

Statistics

(formerly BS Applied Statistics)

Environmental Science

#### **MASTER OF ARTS IN:**

Applied Statistics

Chemistry

English as a

Second Language

Filipino

General Science

Mathematics

Physics

Social Studies

#### **BACHELOR OF ARTS IN:**

Communication

English Language

Filipino Language

### *COLLEGE OF ENGINEERING AND APPLIED TECHNOLOGY*

#### **BACHELOR OF SCIENCE IN:**

Agricultural and Biosystems

Engineering

(formerly BS Agricultural

Engineering)

#### **CERTIFICATES IN:**

Basic Automotive

Technology

Advance Automotive

Technology

### *COLLEGE OF FORESTRY*

#### **MASTER OF SCIENCE IN:**

Forestry

#### **BACHELOR OF SCIENCE IN:**

Forestry

### *COLLEGE OF NURSING*

#### **BACHELOR OF SCIENCE IN:**

Nursing

### *COLLEGE OF HOME ECONOMICS AND TECHNOLOGY*

#### **MASTER OF ARTS IN:**

Home Economics

Technology and Home Economics

#### **BACHELOR OF SCIENCE IN:**

Home Economics

Nutrition and Dietetics

Entrepreneurship

Hospitality Management

(formerly BS Hotel and Restaurant Management)

### *COLLEGE OF TEACHER EDUCATION*

#### **DOCTOR OF PHILOSOPHY IN:**

Educational Management

#### **MASTER OF ARTS IN:**

Education

Guidance

#### **MASTER OF SCIENCE IN:**

Library and Information Science

#### **BACHELOR OF:**

Early Childhood Education

(from BEE Major in Early Childhood Development)

Elementary Education

Library and Information Science

Physical Education

Secondary Education

Technology and Livelihood Education

(from BSE Major in TLE)

### *COLLEGE*

### *OF*

### *VETERINARY*

### *MEDICINE*

#### **DOCTOR OF:**

Veterinary

Medicine



### *INSTITUTE OF HUMAN KINETICS*

**MASTER OF SCIENCE IN:**

Physical Education

**DIPLOMA IN:**

Physical Education

**BACHELOR OF SCIENCE IN:**

Exercise and Sports

Science Physical

Education (from BPE major in Sports and Wellness Management)

### *INSTITUTE OF PUBLIC ADMINISTRATION*

**MASTER OF:**

Public Administration

**BACHELOR OF:**

Public Administration

**DIPLOMA IN:**

Public Administration

**CERTIFICATE IN:**

Public Administration

### *OPEN UNIVERSITY*

**MASTERS IN:**

Community Development  
Community and Health Development  
Development Communication  
Cooperative Management  
Human Resource Management

Urban Management  
Non-Formal Education

**DIPLOMA IN:**

Training Management

Urban Management

**CERTIFICATE IN:**

Organic Agriculture

### *BSU BOKOD*

**BACHELOR OF:**

Elementary Education  
Technology  
and Livelihood  
Education

Technical-Vocational  
Teacher Education  
(formerly BS Industrial  
Education)

**BACHELOR OF**

**SCIENCE IN:**

Industrial Technology

### *BSU BUGUIAS*

**BACHELOR OF:**

Agricultural Technology  
Elementary Education-

Physical Education

Secondary Education

Technical-Vocational

Teacher

Education (formerly BS

Industrial Education)

### *INSTITUTE OF INFORMATION TECHNOLOGY*

**BACHELOR OF**

**SCIENCE IN:**

Information

Technology

### *INTERNATIONAL LANGUAGE CENTER*

**SPECIAL PROGRAM FOR ENGLISH LANGUAGE AND LITERATURE (SPELL)**

a two-term program that provides opportunities for students to develop their cultural awareness, and critical thinking skills as they study English language and literature

**INTENSIVE FUNCTIONAL ENGLISH LANGUAGE PROGRAM (IFELP)**

a one-month program designed to develop the reading, writing, listening, speaking and viewing skills

**ENGLISH LANGUAGE PROFICIENCY FOR INDIVIDUAL ADVANCEMENT (ELPIA)**

one-on-one English tutorial to advance English language proficiency in spoken and written English

**ENGLISH FOR ACADEMIC PURPOSES-TRAINING COURSE (EAP-TC)**

a one-month English enhancement program conducted with the Office of the Student Services for Identified Expanded Student Grant-in-aid Programs for Poverty and Alleviation (*ESG-PA*) grantees

## **B. Program Accreditation**

Twelve degree programs being offered by the University underwent Survey Visits by teams from the Accrediting Agency of Chartered Colleges and Universities in the Philippines (AACUP), Inc during the year. The AACUP also assessed other programs for Phase 2 evaluation of the 4th Survey Visit on December 2, 2018.



For the first time, BSU Bokod and Buguias underwent accreditation by the AACUP on March 2018.

A total of 54 programs being offered by the University have undergone accreditation survey. Thirteen (13), twenty-six (26) and twenty-one (21) are of Candidate, Level II, and Level III status, respectively. The list of accredited degree programs are as follows:

<b>Level III</b>		<b>Level II</b>	
<b>DEGREE PROGRAM</b>	<b>VALIDITY (year &amp; month)</b>	<b>DEGREE PROGRAM</b>	<b>VALIDITY (year &amp; month)</b>
PhD in Horticulture	2018-07	PhD in Agronomy	2019-08
PhD in Rural Development	2018-07	PhD in Language Education	2019-08
MS in Agricultural Economics	2018-12	PhD in Science Education-Biology	2020-11
MS in Agronomy	2019-12	PhD in Educational Management	2019-08
MS in Animal Science	2019-12	MS in Agribusiness Management	2019-11
MS in Entomology	2019-12	MS in Biology	2020-11
MS in Horticulture	2019-12	MA Applied Statistics	2020-11
MS in Plant Pathology	2019-12	MA in Chemistry	2019-08
MS in Rural Development	2018-07	MA in English as a Second Language	2019-08
MS in Soil Science	2018-07	MA in Filipino	2019-08
BS in Agriculture	2019-12	MA in Physics	2021-10
BS in Agribusiness	2018-09	MA in General Science	2021-10
BS in Applied Statistics	2021-09	MA in Mathematics	2020-11
BS in Agricultural Engineering	2018-12	MA in Social Studies	2019-08
BS in Forestry	2019-11	MS in Forestry	2021-10
BS in Home Economics	2018-09	MA in Home Economics	2021-11
BS in Nutrition and Dietetics	2018-07	MA in Technology and Home Economics	2021-11
BS in Nursing	2016-08*	MA in Guidance	2019-08
Bachelor in Elementary Education	2019-12	MA in Education	2019-08
Bachelor in Secondary Education	2019-12	MA in Physical Education	2021-10
Doctor of Veterinary Medicine	2016-08	Master in Public Administration	2021-11
		BS in Development Communication	2019-08
		BS in Environmental Science	2020-11
		BS in Information Technology	2021-11
		BS in Entrepreneurial Technology	2021-10
		Bachelor of Library and Information Systems	2017-08

<b>Candidate BSU La Trinidad</b>	
<b>DEGREE PROGRAM</b>	<b>VALIDITY (year &amp; month)</b>
Master in Library and Information Science	2020-03
BS in Hotel and Restaurant Management	2020-03

<b>Candidate BSU Bokod</b>		<b>Candidate BSU Buguias</b>	
<b>DEGREE PROGRAM</b>	<b>VALIDITY (year &amp; month)</b>	<b>DEGREE PROGRAM</b>	<b>VALIDITY (year &amp; month)</b>
Bachelor in Elementary Education	2020-03	Bachelor in Elementary Education	2020-03
BS in Industrial Education	2020-03	Bachelor in Secondary Education	2020-03
BS in Industrial Technology	2020-03		

\*Results of the Phase 2 of the 4th Survey Visit on June 29, 2018 is yet to be released

### C. Program Certification

Three new programs of the University were awarded with a Certification of Program Compliance (CoPC) by the Commission on Higher Education – Cordillera Administrative Region (CHED-CAR). The COPCs for the Bachelor of Arts in English Language and the Bachelor of Arts in Filipino Language were awarded on January 18, 2018, while that of the Bachelor of Arts in Communication was awarded on April 16, 2018. These programs were

**Table 1. Degree programs with COPC**

<i>DEGREE PROGRAM</i>	<i>CoPC No. and Date Issued</i>
Master in Library and Information Science	May 8, 2013
MS in Environmental Science	CoPC No. 008, Series of 2016 issued Oct. 27, 2016
Bachelor of Elementary Education	CoPC No. 005, Series of 2017 issued March 10, 2017
Bachelor of Secondary Education	CoPC No. 006, Series of 2017 issued March 10, 2017
BA in English Language	CoPC No. 001, Series of 2018 issued Jan. 18, 2018
BA in Filipino Language	CoPC No. 001, Series of 2018 issued Jan. 18, 2018
BA in Communication	CoPC No. 009, Series of 2018 issued April 16, 2018
BS in Agribusiness	CoPC No. 008, Series of 2017 issued March 14, 2017
BS in Agricultural Engineering	CoPC No. 002, Series of 2017
BS in Agriculture	CoPC No. 004, Series of 2017 issued March 10, 2017
BS in Development Communication	CoPC No. 013, Series of 2018 issued Sept. 25, 2018
BS in Forestry	CoPC No. 001, Series of 2017 issued March 10, 2017
BS in Nutrition and Dietetics	CoPC No. 003, Series of 2017 issued March 10, 2017
Doctor of Veterinary Medicine	CoPC No. 003, Series of 2017 issued March 10, 2017

offered starting 1st semester of SY 2017-2018 by the Department of Humanities of the College of Arts and Sciences (CAS).

The Bachelor of Science in Development Communication program, an existing program of the University, was awarded with a Certificate of Program Compliance (CoPC) by CHED-CAR on September 25, 2018.

A total of 14 programs being offered by the University have the CoPC (Table 1).

## STUDENTS

### A. Enrollment

There were 7,631, 2,002, and 8,216 students who were enrolled during the 2nd semester SY 2017-2018, Midyear 2018, and 1st semester SY 2018-2019, respectively. The distribution of students by academic level and unit is presented in Figures 1 and 2.

The 7,631 students who enrolled during the 2nd semester SY 2017-2018 is 5.6% lower than the number of enrollees during the previous semester (1st semester SY 2017-2018: 7770).

Majority of the students are from the College of Agriculture (20%), College of Teacher Education (20%), Graduate School (19%), and the College of Home Economics and Technology (7%). There are 21 international students enrolled in the University.

For the Midyear Term, a total of 2,002 students enrolled. Majority of the students are from the College of Agriculture (21%), College of Teacher Education (20%), Graduate School (14%), and the College of Home Economics and Technology (11%).

Almost 70% (5,363) of the 8,216 students who enrolled during the 1st semester of SY 2018-2019 are female and 30.39% (2309) are male. Just like the previous terms, majority of the students are from the College of Agriculture (19%), College of Teacher Education (19%), Graduate School (17%), and the College of Home Economics and Technology (8%).

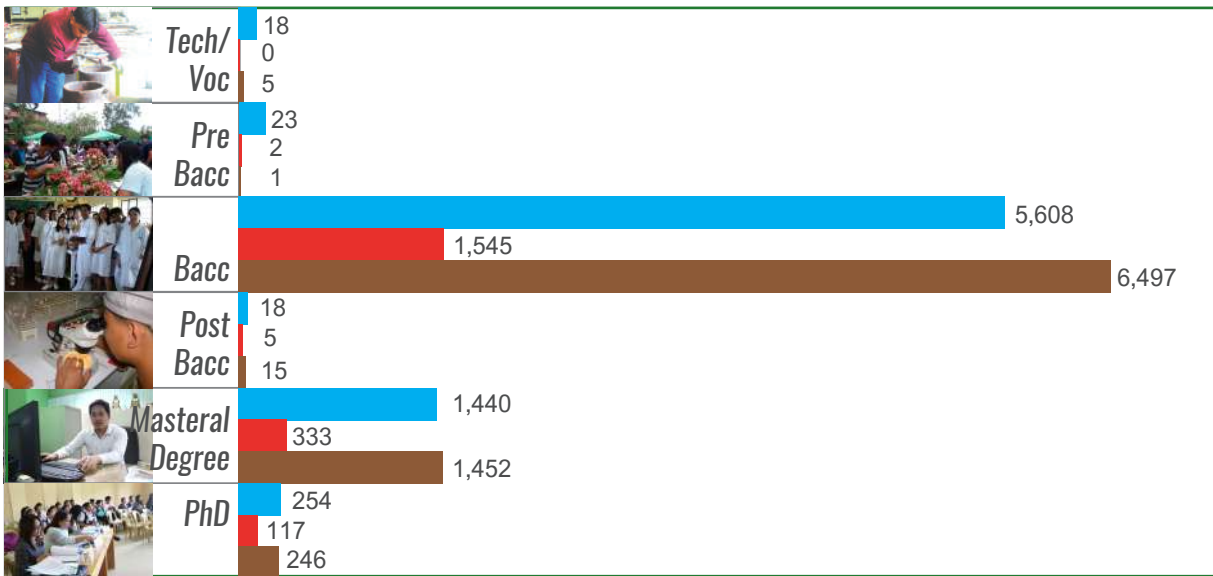


Figure 1. Distribution of enrollees by academic level

2nd Sem '17-18 Midyear '18 1st Sem '18-'19

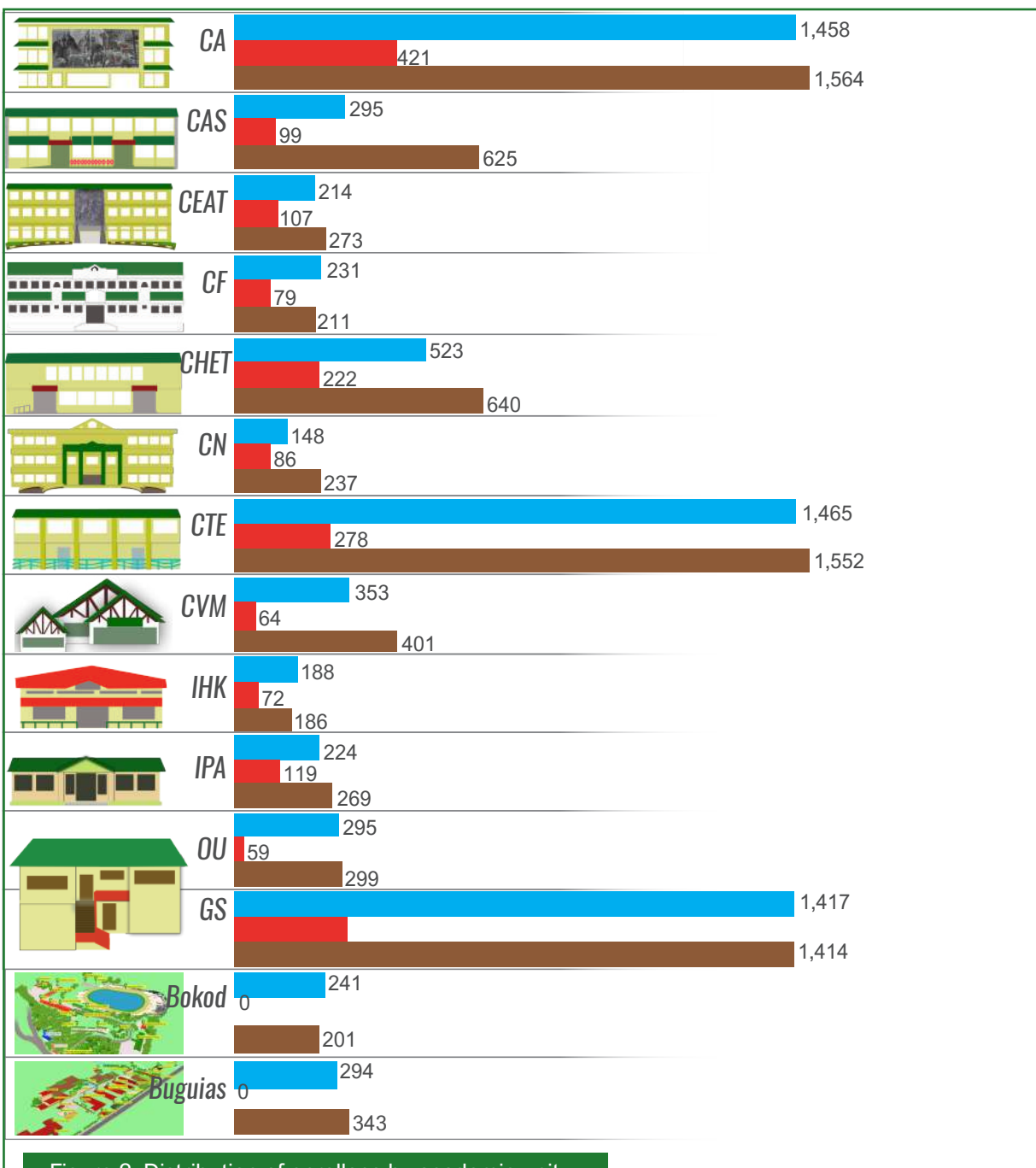


Figure 2. Distribution of enrollees by academic unit

2nd Sem '17-18 Midyear '18 1st Sem '18-'19

During the year, there were thirty (30) foreign students who enrolled in various programs offered by the University. Three (3) are doctorate, twelve (12) are masteral, and fifteen (15) are baccalaureate students. Nine came from South Korea, followed by Ghana (7), and Nigeria (6). The list is presented in Table 2.

Table 2. List of foreign students in 2018

USA		
NAME	SEX	DEGREE
1. Nabus, Cheyenne Santiago	F	BSN

LIBYA		
NAME	SEX	DEGREE
1. Marymi, Ahmed Abdullah Sali	M	MS Biology

SOUTH KOREA		
NAME	SEX	DEGREE
1. Kang Yoon Hee	F	PhD EM
2. Kim Shin Geun	M	PhD EM
3. Back Eun Sook	F	MAG
4. Bin Jibum	M	MDC
5. He Yi Bo	M	MAEd
6. Kim Junghyun	F	MA ESL
7. Seok Ha Young	F	MAG
8. Kang Junhyeong	M	BSE
9. Lim Min-Sub	M	DVM

GHANA		
NAME	SEX	DEGREE
1. Kumi, Francis	M	PhD EM
2. Hagan, Paul	M	MPA
3. Addoh, Kwame Asamoah Manu	M	BS Entrep
4. Agyemang, Jacqueline Opoku	F	BSND
5. Amoah, Modester	F	BSDC
6. Opoku-Adyemang, Clifford	M	BSAB
7. Osei, Nana Akua Serwaa Kyeretwie	F	BSN

JAPAN		
NAME	SEX	DEGREE
1. Okada, Masako	F	MCD

THAILAND		
NAME	SEX	DEGREE
1. Saedarn, Jinnicha	F	DVM

NIGERIA		
NAME	SEX	DEGREE
1. Emmanuel, Samuel Hayatu	M	MPA
2. Michael, Clement	M	MS Agronomy
3. Nnechi, Gabriel Ocean	M	MPA
4. Stephen, Pamela Kasham	F	MPA
5. Ibezimako, Ifeanyi Stanley	M	MHRM
6. Umunna, Chitoka Grace	F	BSIT BSA

TIMOR LESTE		
NAME	SEX	DEGREE
1. Dos Santos De Ataujo, Julito Fatima	M	BSF
2. Gusmao Belo, Julio	M	BSF BSAS
3. Guterres, Nelson	M	BSF
4. Maria Mendes, Jose		

## B. Student Awards

Students of the University earned various awards in various national, regional and local academic and athletic competitions. These awards are:

### Unilab Foundation's Ideas Positive

(with PhP 100,000 grant for project implementation)

After joining the Ideas Positive Boot Camp which was held at Camp Allen, Santa Cruz, Laguna on February 14-16, 2018, Team Buhay Pag-asa (Team BP) were awarded PhP 100,000.00 to implement "Project Blood Norms, Pulse Apt" at Bahong, La Trinidad, Benguet. The Project BP team members are BSND students Angelica Adviento, Cris Angelica Cortez, Marlyn Gayoc, Rizzle Janrey Poyongan and Myra Simeon.

### 2<sup>nd</sup> Runner-up, 7<sup>th</sup> National Agricultural Science Quiz Contest

The contest was held at INEP Auditorium of University of the Philippines, Los Baños, Laguna on March 17, 2018. Winning students are Dexter P. Tad-o, Jeanebelle Pita and Chelle Charlden Carlos

**Finalist, Best Paper Competition**

(Undergraduate Thesis Category)

for the paper “Carbon Stock Assessment and Valuation of Pine Tree (Pinus kesiya) in the Golf Course at Sapid as an Urbanizing Community in Mankayan, Benguet” by BSES student Georgemar G. Onio and adviser: Romeo A. Gomez Jr. during the 18<sup>th</sup> PSSN Annual Scientific Conferences (International Conference on Nature Studies and Innovations for the Environment – ICoNSIE 2018 held on May 15 -18, 2018 at the University of Santo Tomas, Manila, Philippines

**3<sup>rd</sup> Placer - Best in Podium (Student Category)**

for the Research entitled “Ocean of Tears: The Lived Experiences of Bereaved Mothers by Intentional Self-Harm” by CHRDRC by students, Jonilyn B. Bayeng and Amarantha Fe C. Sucdad and adviser Vicente G. Panagan Jr.

**One of the 10 Best Presenters (Regular Category)**

Crisfelyn Baligno, BSE student, earned the award during the Annual Social Education Conference 2018 by the Department of Political Science-School of Liberal Arts and Human Sciences, University of Baguio

**William Dar Leadership Award and Regional Ten Outstanding Students of the Philippines**

received by BSAS student Rachelle Ann D. Velilia

**Bronze Medal, Battle Royale: CHEF WARS**

won by Pamela Jeane B. Remeindo, Maravilla M. Senado and Archie Val B. Tubal during the 12<sup>th</sup> National Showdown Bronze medal on October 25-28, 2018 at the Etoon Centris, Quezon Avenue, Quezon City

**William Dar Leadership Award, Regional Ten Outstanding Students of the Philippines, and 57<sup>th</sup> National Finalist: Ten Outstanding Students of the Philippines**

received by BSAB student Alladin A. Bañes

**Bronze Medals, International Federation of Muay Thai Association**

held at Pattaya, Thailand on July 23-29, 2018. Medalists are Jaymar Palista, Shelia B. Omalio (51 Kg.) and Chengay Alce Labfas

**Featherweight Champion, Highland Boxing Promotion**

held on September 23, 2018 at Bangkok, Thailand won by Kurvin Jon Natuplag-WBL Asia

**Outstanding Nutrition and Dietetics Student**

Phoebegeal Phonocy received the award by the Philippine Association of Nutrition, Inc. on July 13, 2018 at the Novotel Cubao, Quezon City

University athletes also competed in various tilts which include the 2018 National SCUAA Games held on February 18-23, 2018 at the University of Antique, Baguio-Benguet Athletic League, Tribal Clan Martial Arts System- Baguio Arnis All Star, Inc. in Coordination with the City of Baguio on October 6-7, 2018 at the Philippine Military Academy Gym, Baguio City and the 5th National Women’s Martial Arts Festival by the Philippine Sports Commission on October 23-25, 2018 at the SM Harrison Plaza, Malate, Manila. The medals garnered are shown in Figure 3.

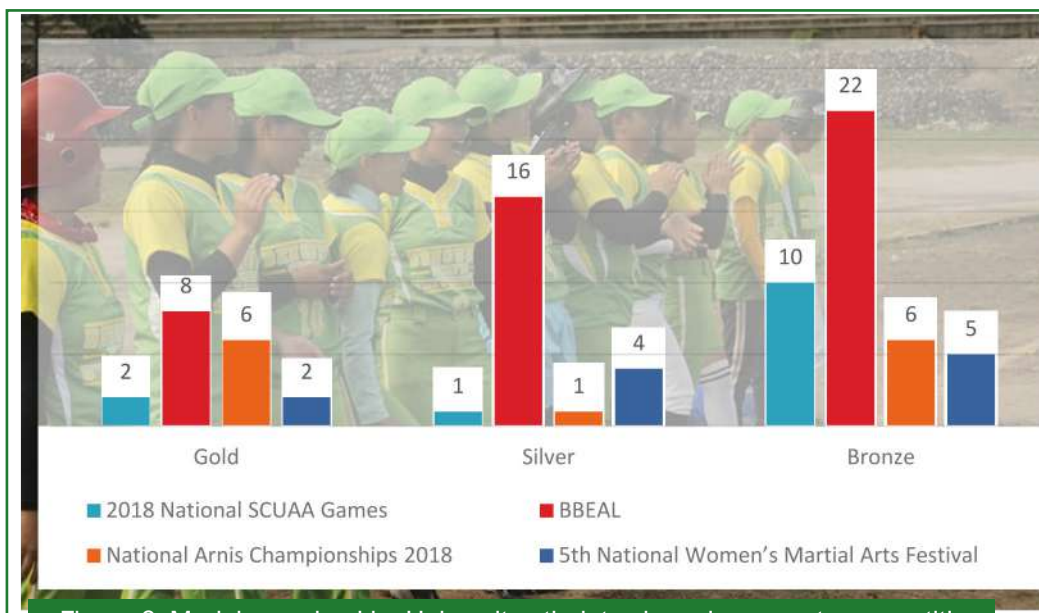


Figure 3. Medals received by University athletes in various sports competitions

### C. Student Development

Students, with the support of the University, are encouraged to be involved in various seminars/trainings conducted both outside and within the University. A total of 102 seminars were attended by the students; International (3), National (13), Regional (12), and Local (74).

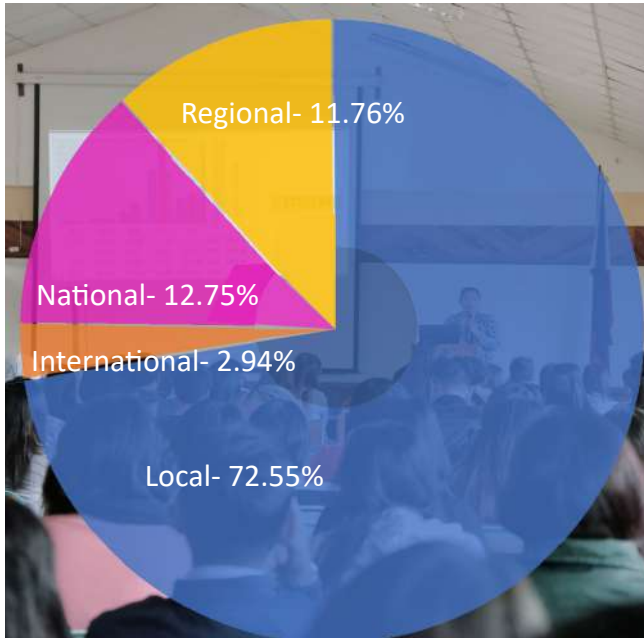


Figure 3. Distribution by level of trainings or conferences attended by students

Five BSU students also participated in the SEA Teacher project of SEAMEO. Two were deployed in Indonesia with specializations in Elementary Education and Social Studies and three were deployed in Thailand with specialization in Elementary Education, Science and English. They are Jemah Faye S. Fabila, Judylyn A. Cholinas, Graciele L. Kinahingan, Kenjo Ernesto S. Bayan and Nicol A. Bestre.



Photo shows the first batch of BSU participants to the SEA Teacher Project of SEAMEO. They were welcomed by BSU officials after they finished their pre-service teaching abroad.

### D. Graduates

The University produced 1,814 graduates during the year: 118 for the 1st semester SY 2017-2018; 1,634 for the 2nd semester SY 2017-2018, and 62 for the Midyear Term of 2018. About 92% (1,661) are graduates from the La Trinidad Campus. Bokod and Buguias Campuses produced 68 and 85 graduates, respectively. The distribution of graduates by academic level is presented in Figure 4.

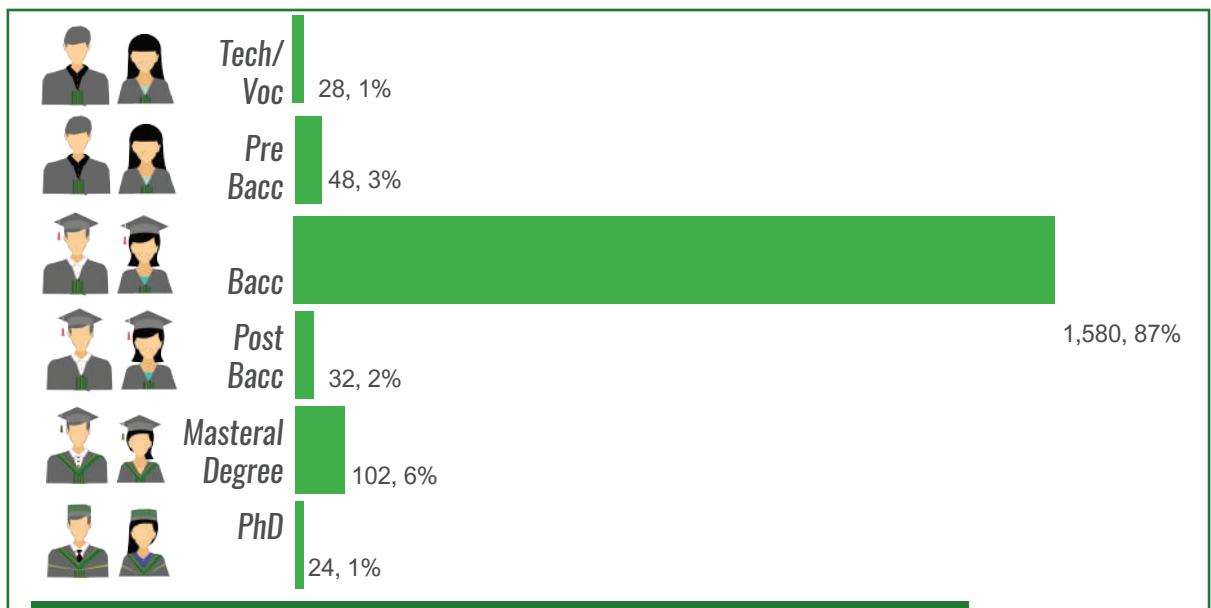


Figure 4. Distribution of graduates by academic level

The colleges with the most number of graduates, as shown in Figure 5, are from CTE (513), CA (396), and CHET (186). Among the graduates, 102 earned masteral degrees and 24 earned doctorate degrees.

Two magna cum laude and 121 cum laude led the 1,463 baccalaureate degree graduates during the Commencement Exercises which was held on June 14, 2018.

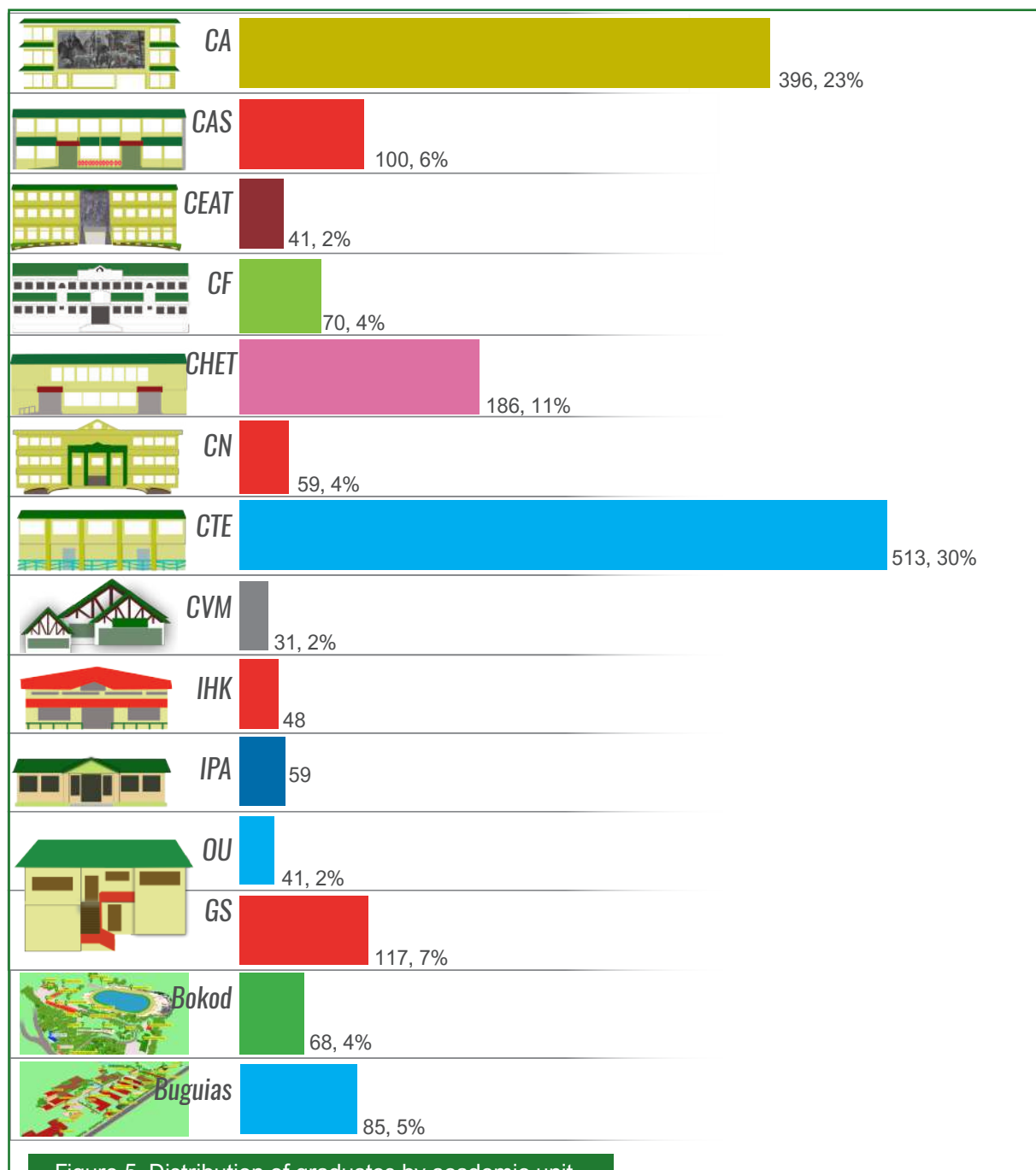


Figure 5. Distribution of graduates by academic unit

Thirty nine (39) students completed the Certificate on Community Health Development, a module program under the Municipal Leadership and Governance Program (MLGP); a public private partnership between Benguet State University, Department of Health Regions I, II and CAR, Zuellig Family Foundation, and the United Nations Fund for Population Activities (UNFPA).

Two Colloquium and Graduation Rites were held during the year. The first, with twenty one (21) graduates, was held on March 16, 2018 at Oasis Country Resort, San Fernando, La Union. The graduates are municipal mayors and municipal health officers from Region I. The second was held on September 28, 2018 at the Ridgewood Residence, Baguio City. The graduates are eighteen (18) municipal mayors and municipal health officers from Abra, Ifugao and Kalinga.





Graduates of the Certificate on Community Health Development during the Colloquium and Graduation Rites held on March 16, 2018 at Oasis Country Resort, San Fernando, La Union.



Graduates of the Certificate on Community Health Development during the Colloquium and Graduation Rites held on September 28, 2018 at the Ridgewood Residence, Baguio City.

There were also 35 foreign students who completed programs offered by the International Language Center: twenty-three (23) for the Intensive Functional English Language Program (IFELP), four (4) for the English Language Program for Individualized Advancement (ELPIA) and eight (8) for the Special Program for English

Language and Literature (SPELL).

Majority (20) came from Thailand. In addition, there were 176 trainees who finished the Academic Purposes Training Courses on different areas of Speaking and Listening, Reading and Writing, and Grammar at the International Language Center last May 21 to June 1, 2018.

### E. Performance in Licensure Examination

A very good performance was noted in almost all of the licensure examinations taken by the BSU Graduates. BSU ranked as top performing school nationwide in the Librarian Licensure Examination and rank 4 in the Nursing Licensure Examination.

The following are the Topnotchers in the licensure examinations:

**Agricultural and Biosystems Engineer**  
 (August 22-23, 2018)  
 AGSALOG, Dindo B. - 3rd Place  
 ALOS, Bernalyn M. - 4th Place

**Librarian**  
 (September 18-19, 2018)  
 BAYENG, Arlyn O. - 9th Place

The comparison of the University's performance with the national performance is shown in Figure 6.

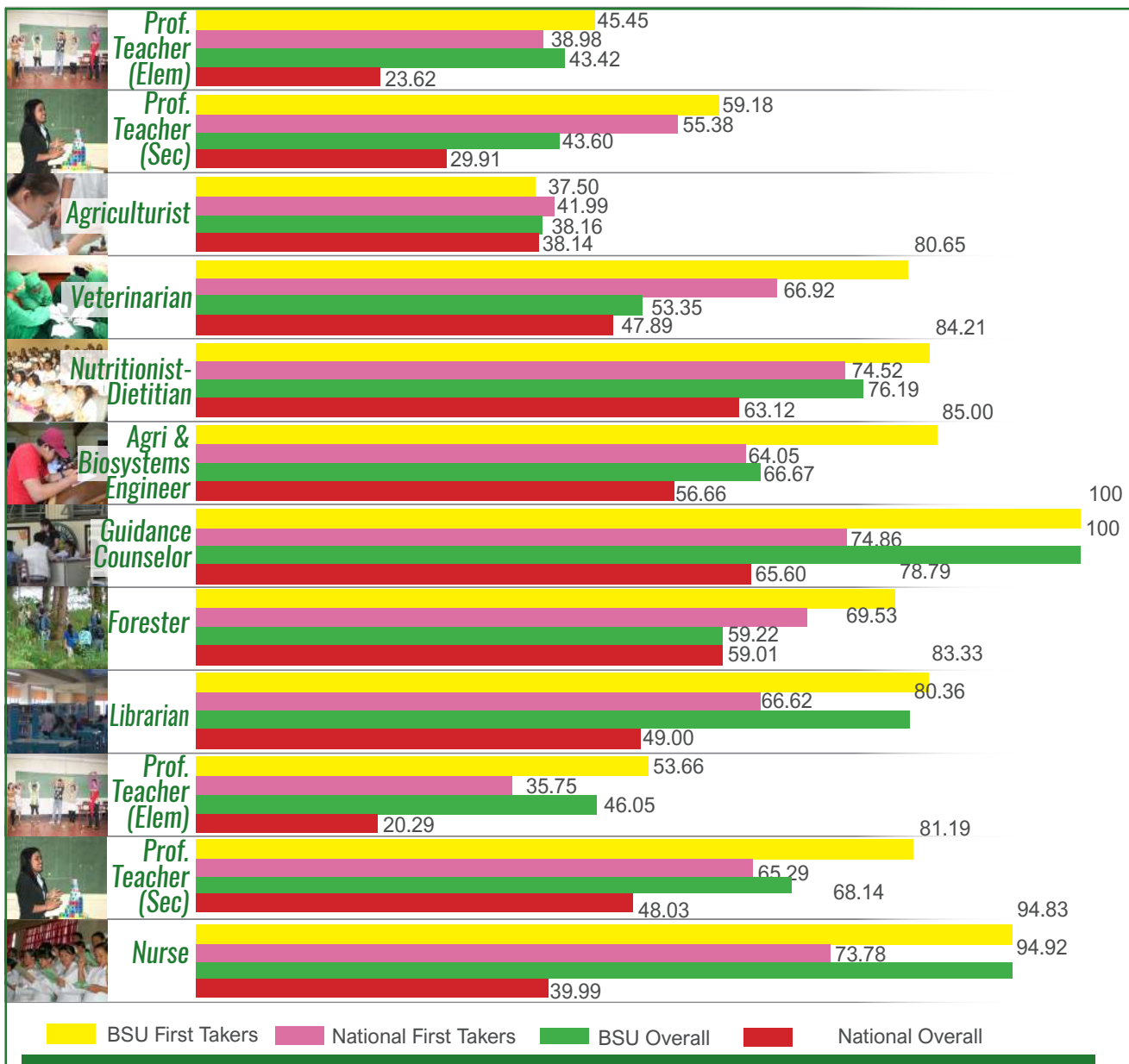


Figure 6. Comparison of Benguet State University's performance with national performance in licensure examinations for 2018

## FACULTY

### A. Faculty Profile

The University has a total of 368 faculty members holding plantilla positions; 313 at La Trinidad, 19 at Bokod, and 36 at Buguias campus. 189 (60.38%) are female, and 124 (39.62%) are male.

The University has 37 full-fledged professors. Majority of the faculty members (148) however, hold Instructor ranks, followed by Assistant Professors (105), and the rest are Associate Professors (78).

In terms of highest educational attainment, there are 122 (33.15%) faculty members who are Ph.D. degree holders, 229 (62.23%) are MA/MS degree holders, and only 17 (4.62%) are BA/BS holders.

The distribution of faculty members by sex, position, and highest educational attainment in the three campuses are presented in Figure 7.

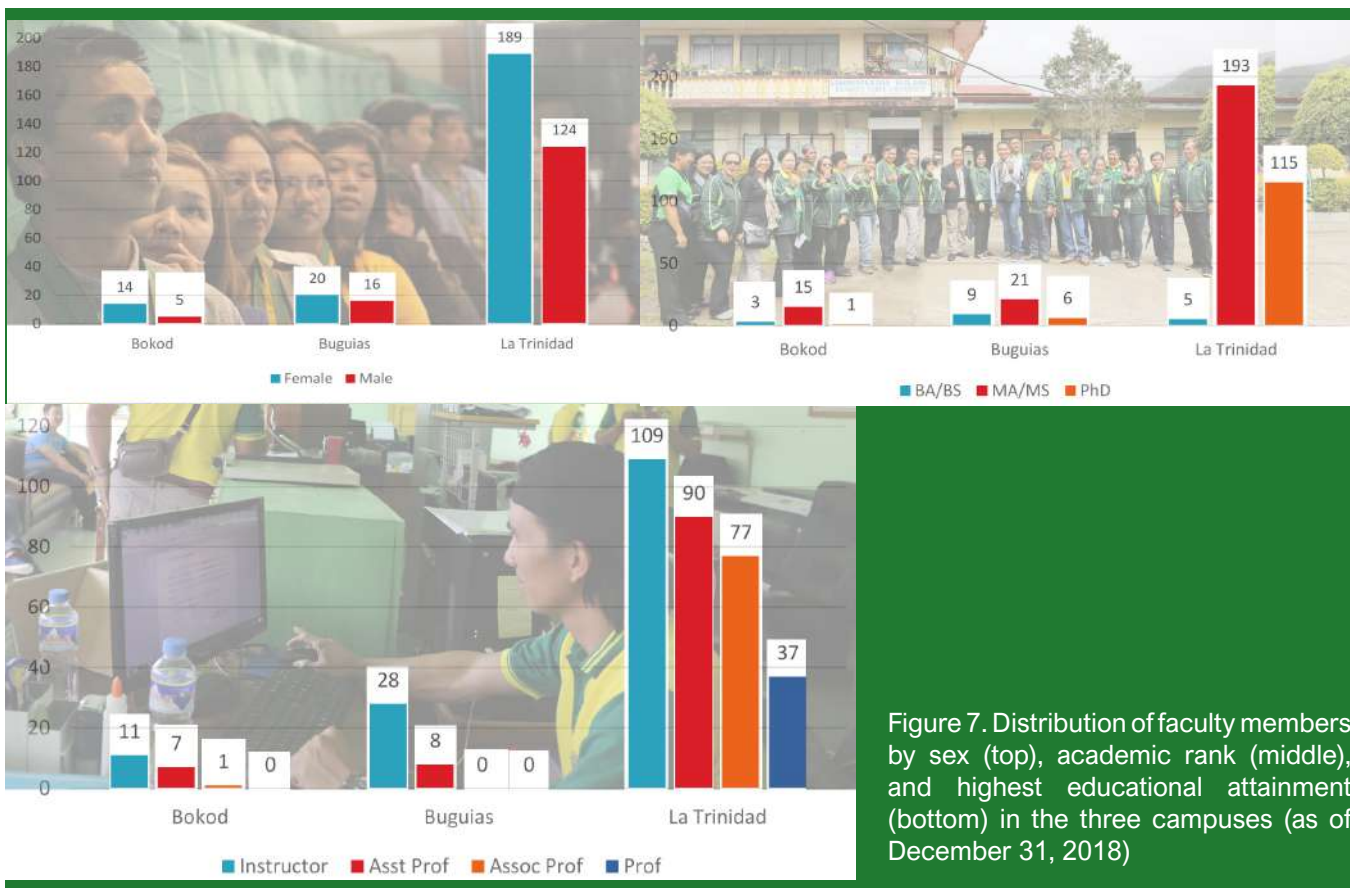


Figure 7. Distribution of faculty members by sex (top), academic rank (middle), and highest educational attainment (bottom) in the three campuses (as of December 31, 2018)

## B. Faculty Development

There were ten (10) faculty members who finished their doctorate degree and four (4) who finished their masteral degree in 2018 (Table 3).

Table 3. Faculty member who completed their degrees in 2018		
NAME	DEGREE	UNIVERSITY
<b>D O C T O R A T E</b>		
Andres, Jamesly T.	PhD Crop Science	Central Luzon State University
Apilis, Leonard T.	PhD Language Education	University of the Cordilleras
Ayban, Leila Marie A.	PhD Horticulture	University of the Philippines Los Baños
Basquial, Darwin A.	PhD Horticulture	University of the Philippines Los Baños
Bito, Jennie M.	PhD Language Education	University of the Cordilleras
Bognadon, David Joseph L.	PhD Management	Saint Louis University
Das-ilen, Gemma S.	PhD Entomology	University of the Philippines Los Baños
Lumasok, Eugene S.	PhD Language Education	Benguet State University
Tayaben, Jude L.	PhD Nursing Education	Saint Paul University
<b>M A S T E R A L</b>		
Bugtong, Violeta B.	MAEd – Educational Management	Saint Mary’s University
Chichioco, Dante S.	MS Forestry	Benguet State University
Laruan, Leo S.	MS Animal Science	Central Luzon State University
Taag, Gregorio C.	MS Psychology	University of the Cordilleras

Forty-four (44) faculty members availed of scholarships to pursue advanced studies. Majority (31) are scholars under the CHED K to 12 Transition Program. In addition, there were ten (10) faculty members who availed of thesis/dissertation assistance from the University.

In addition, the following faculty members were granted sabbatical leaves:

**Dolendo, Russel** Associate Professor V, January 1, 2018 – December 31, 2018  
 “Evaluation of the Proposed Course Book in Philippine Folk Dances”

**Domondon, Denisa L.** Professor VI, January 1, 2018 – December 31, 2018  
 “Fungal Contaminants of Coffee Beans Grown in Selected Areas of Benguet Province”

**Sison-Kuiper, Myrna B.** Associate Professor III, August 1, 2018 – July 31, 2019  
 Book: Arts Appreciation

## Participation to Trainings/Seminars

Faculty and staff attended 668 seminars, trainings, and workshops. Majority attended seminars are local (330), followed by national (181), regional (110) and international (47) (Figure 8). The international seminars/trainings/conferences, which were attended to by faculty members and staff under the Academic Sector are listed in Table 4.

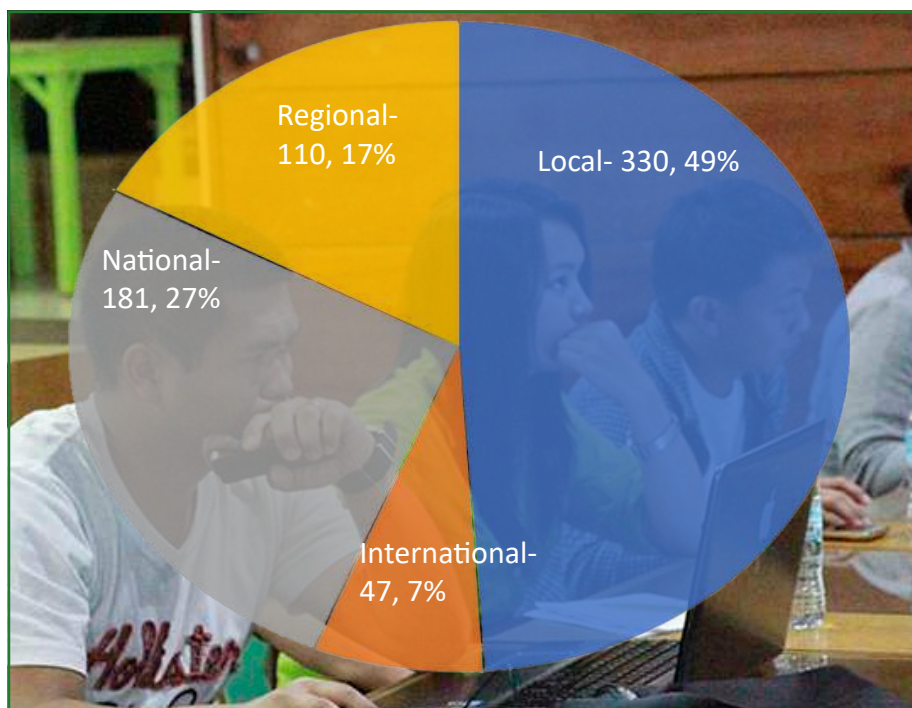


Figure 8. Distribution by level of trainings/conferences attended by faculty and staff

Table 4. List of international seminars/training/conferences attended by faculty and staff

<p><b>USA</b>                      GLOBAL LEADERSHIP SCHOOL OF INDIGENOUS WOMEN, PROGRAM ON HUMAN RIGHTS AND INTERNATIONAL ADVOCACY SKILLS held at United Nations Head Quarters and University of Columbia, New York City participated by BANES, Gigy G.</p>	<p><b>SRI LANKA</b>                      WORKSHOP IN INNOVATIVE TECHNOLOGIES FOR INCREASING AGRICULTURAL WATER PRODUCTIVITY held on July 23 – 27, 2018 at Colombo participated by ONALAN, Milagros B.</p>
<p><b>CAMBODIA</b>                      11<sup>TH</sup> BIENNIAL COMPARATIVE EDUCATION SOCIETY OF ASIA (CESA) CONFERENCE 2018 held on May 10 – 12, 2018 at Siem Reap participated by FELICIANO, Esper L. and MANAS, Froilan B.</p>	<p><b>TAIWAN</b>                      KNOWLEDGE SKILL LEARNING ON PROFITABILITY OF PROTECTED STRUCTURES AND BIOCONTROL AGENTS IN VEGETABLE AND STRAWBERRY PRODUCTION held on November 5-11, 2018 at National Chung Hsing University, Taiwan participated by PEREZ, Jocelyn and SIM, Jovita M.</p>
<p><b>MALAYSIA</b>                      INTERNATIONAL SOCIETY FOR SOUTHEAST ASIAN AGRICULTURAL SCIENCES (ISSAAS) INTERNATIONAL CONFERENCE held on October 12-15, 2018 participated by BASQUIAL, Darwin A. CIANO, Edlyn Mae N. LARUAN, Leo S. PEREZ, Jocelyn C. and TANDANG, Leoncia L.</p>	<p><b>UNITED KINGDOM</b>                      INTERNATIONAL CONFERENCE FOR SOCIAL SCIENCES AND HUMANITIES 2018 held at University of London participated by POLIDEN, Samuel S.</p>
<p><b>JAPAN</b>                      10TH INTERNATIONAL CONFERENCE IN TEACHING STATISTICS (ICOTS) held on July 7 – 10, 2018 Kyoto, Japan participated by VALENTIN, Precious M.</p>	<p><b>FINLAND</b>                      3RD CONFERENCE ON ECOLOGY OF SOIL MICROORGANISMS held on June 17 - 21, 2018 at Helsinki participated by TIPAYNO, Sherlyn C.</p>

Table 4. Continued

<p style="text-align: center;"><b>INDONESIA</b></p> <p>4<sup>TH</sup> INTERNATIONAL RESEARCH CONFERENCE ON HIGHER EDUCATION held on January 24-27, 2018 at Inna Grand Bali Resort, Bali participated by Julie M. Binaldo-Velasco; Serano L. Oryan and Leonardo L. Samonte</p> <p>14<sup>TH</sup> ANNUAL CONFERENCE ON CROP SCIENCE AND AGRICULTURE held on November 29-30, 2018 at Bali participated by AYBAN, Leila Marie A. and BASQUIAL, Darwin A.</p> <p>18<sup>TH</sup> AAHRMEI NATIONAL ANNUAL CONVENTION held on November 30- December 4, 2018 at iHotel Baloi, Batam participated by BAWANG, Amelia G.</p>	<p style="text-align: center;"><b>SOUTH KOREA</b></p> <p>GLOBAL SMART FARM BUSINESS DIALOGUE 2018 held on July 3-11, 2018 at Seoul participated by BASQUIAL, Darwin A. and PABLO, Janet P.</p> <p>31<sup>ST</sup> NATIONAL CREDIT UNION FEDERATION OF KOREA (NACUFOK) EXPOSURE PROGRAM held on November 12-15, 2018 participated by BOGNADON, David Joseph L.</p>
<p style="text-align: center;"><b>THAILAND</b></p> <p>16<sup>TH</sup> NATIONAL CONFERENCE ON DEVELOPING REAL-LIFE LEARNING EXPERIENCES: USING INNOVATION &amp; ENHANCED TECHNOLOGIES (DRLE2018) held on May 31 - June 1, 2018 at Bangkok, Thailand, King Mongkut's Institute of Technology participated by GABITO, Fely A.</p> <p>OCLC ASIA PACIFIC REGIONAL COUNCIL CONFERENCE/ MEETING 2018 held on November 27-30, 2018 at Bangkok participated by CABFILAN, Noel W., QUIJANO, Grace D.</p>	<p style="text-align: center;"><b>SINGAPORE</b></p> <p>INTERNATIONAL SOCIOLOGICAL ASSOCIATION (ISA) RESEARCH COMMITTEES RC06 (FAMILY) AND RC41 (POPULATION) CONFERENCE 2018 held on May 17 - 19, 2018 at Mandarin Orchard, International Sociological Association participated by KIWANG, Ann Heather B.</p> <p>SLU TECHHUB'S ASEAN SOCIO-TECHNOLOGICAL IMMERSION TRIP held on September 12-15, 2018 at Nanyang Technological University participated by CARLOS, Editha D.</p> <p>36<sup>TH</sup> CONFERENCE OF THE ASEAN FEDERATION OF ENGINEERING ORGANIZATIONS held on November 15-16, 2018 participated by CARLOS, Editha D.</p>
<p style="text-align: center;"><b>PHILIPPINES</b></p> <p>INTERNATIONAL TRAINING-WORKSHOP ON THESIS AND DISSERTATION WRITING IN QUALITATIVE RESEARCH held on February 14-16, 2018 at Citylight Hotel, Baguio City participated by ABLAZA, Gretchen Gaye C., ABLAZA, Virgilio C., DAMONG, Glorina C., GANO, Carolyn B. and SACLEY, Judith B.</p> <p>18<sup>TH</sup> PASSAGE BIENNIAL CONVENTION AND INTERNATIONAL RESEARCH CONFERENCE held on February 14-17, 2018 Hotel Supreme Convention Plaza, Baguio City participated by DAGWASI, Charlie, FELICIANO, Esper L., GABITO, Fely A., GARIN, Dominador S., KUDAN, Rosita B., MANAS, Froilan B., SITO, Leonila R. and TUL-ING, Leticia C.</p> <p>2018 INTERNATIONAL RESEARCH, DEVELOPMENT AND EXTENSION CONFERENCE WITH "TRANSLATING RESEARCH TO INNOVATION IN SCIENCE, TECHNOLOGY AND NATURAL RESOURCE MANAGEMENT" held on March 16 -18, 2018 at Bicol University East Campus, Legaspi City participated by SUDAYPAN, Constantino T.</p> <p>1<sup>ST</sup> INTERNATIONAL FORUM ON INNOVATION FOR INDIGENOUS PEOPLES EMPOWERMENT AND TRANSFORMATION held on April 5 - 7, 2018 Teng-ab Complex Bontoc, Mountain Province participated by ANONGOS JR, Stanley F. and TAD-AWAN, Belinda A.</p> <p>2<sup>ND</sup> INTERNATIONAL RESEARCH CONFERENCE VISION 20/20 PERSPECTIVES AND INSIDES ON AN EMERGING ASIA-PACIFIC REGION held on April 12 - 14, 2018 Ateneo De Naga participated by TELLO, Rowena G.</p> <p>FIRST INTERNATIONAL CONFERENCE: ASIA -CONFERENCE ON RESEARCH PARTNERSHIP AND KNOWLEDGE SHARING held on April 7 -9, 2018 at Abucay, Bataan participated by DUMALHIN, Leonardo D.</p> <p>FIRST INTERNATIONAL NURSING RESEARCH SUMMIT held on April 20-21, 2018 UERMMMC participated by CARANTO, Lawrence C., COLAS, Keverne Jhay P., GAY-AS, Maureen E., LEYGO, Sarah B., PALAO-AY, Glenn Ryan I., PANAGAN, Vicente Jr. G., and TAYABEN, Jude L.</p> <p>INTERNATIONAL RESEARCH CONFERENCE: 2020 PERSPECTIVE AND INSIGHTS ON AN EMERGENT ASIA-PACIFIC REGION held on April 12 -14, 2018 Villa Caceres Hotel, Naga City participated by BINALDO - VELASCO, Julie M.</p> <p>5<sup>TH</sup> INNOSIGHT INTERNATIONAL CONFERENCE/WORKSHOP ON NATURE TO VALUE TOWARDS A CIRCULAR TEXTILE INDUSTRY held on September 24-25, 2018 Sofitel Hotel, CCP Complex, Roxas Blvd., Pasay City participated by TUL-ING, Leticia C.</p> <p>11<sup>TH</sup> INTERNATIONAL CONFERENCE AND SCIENTIFIC MEETING held on October 17-19, 2018 NIPSC, Iloilo City participated by DOYOG, Nova D., GURON, Maricel A. and LACANLALE, Verna D.</p> <p>3<sup>RD</sup> INTERNATIONAL CONFERENCE ON QUALITATIVE RESEARCH held on April 24 -26, 2018 Subic Bay Travelers Hotel, Olongapo City participated by ABLAZA, Gretchen Gaye C. and ABLAZA, Virgilio C.</p> <p>INTERNATIONAL CONFERENCE ON NATURE STUDIES AND INNOVATIONS FOR THE ENVIRONMENT (ICONSIE) held on May 15 -18, 2018 University of Santo Tomas, Manila, Philippines participated by GOMEZ, Romeo Jr., A.</p> <p>INTERNATIONAL CONFERENCE ON NATURE STUDIES AND INNOVATIONS FOR THE ENVIRONMENT held on May 16 -18, 2018 University of Santo Tomas, Manila, Philippines participated by SAMONTE, Cecilia B.</p> <p>ACTION RESEARCH AS A QUALITATIVE RESEARCH METHODOLOGY held on May 17 - 18, 2018 Puerto Princesa, Palawan participated by ABLAZA, Gretchen Gaye C. and ABLAZA, Virgilio C.</p> <p>1<sup>ST</sup> ASIAN EFL JOURNALS CONFERENCE ON RESEARCH AND PUBLICATION held on August 24-26, 2018 Clark Freeport Zone, Pampanga, participated by PANOLONG, Kara S.</p>	

Table 4. Continued

13TH NAKEM INTERNATIONAL CONFERENCE AND 2ND INTERNATIONAL CONGRESS ON THE ILOCANO LANGUAGE held on May 24 - 26, 2018 Center for Culture and Arts, Saint Louis University, Baguio City participated by DAGWASI, Charlie M.

INTERNATIONAL PERFORMANCE SCIENCES CORRECTIVE EXERCISES WORKSHOP held on June 5-7, 2018 BSU participated by BAWANG, Rex John G., AWAS, Calvin Jake P., BALACWID, Ceasar L. and PAWID, Harland Gary B.

ETHICS TEACHER'S TRAINING COURSE held on August 6-10, 2018 Ateneo de Manila University participated by DAGWASI, Charles M. and PARIÑAS, Noel S.

2ND INTERNATIONAL STEAM (SCIENCE, TECHNOLOGY, ENGINEERING, AGRI-FISHERIES AND MATHEMATICS) RESEARCH CONGRESS held on August 28-30 2018 at Tacloban City participated by DULAY, Alvin C.

3RD ORGANIC ASIA CONGRESS AND INTERRELATED EVENTS held on September 15-21, 2018 Bislig City, Surigao del Sur participated by PEREZ, Jocelyn C.

2ND INTERNATIONAL CONFERENCE ON GENDER AND CRIMINAL JUSTICE held on June 6, 2018 Cavite State University, Cavite, participated by ABLAZA, Gretchen Gaye C.

INTERNATIONAL CONFERENCE ON RESEARCH AND EXTENSION held on November 14-15, 2018 Japi Hotel, Cauayan, Isabela participated by SUDAYPAN, Constantino T.

BUKLURAN: EXPLORING THE FOOD SCIENCE AND NUTRITION NEXUS TOWARDS ACHIEVING THE UNITED NATIONS' SUSTAINABLE DEVELOPMENT held on October 17-19, 2018 Gusali 2, College of Home Economics, UP Diliman, Quezon City participated by TONDO, Daisy A.

47TH PAFTE NATIONAL & INTERNATIONAL PAFTE CONVENTION held on October 22-24, 2018 Novotel Hotel Quezon City participated by BOLONA, Marcelina L., ALLAY, Brenda B., GALLARDO, Alma Vida G., BOTENGAN, Desiree F., KUDAN, Rosita B. and SACLEY, Judith B.

1ST INTERNATIONAL RESEARCH CONFERENCE ON LOCAL KNOWLEDGE AND INDIGENOUS STUDIES OF THE CENTER FOR SOCIAL INNOVATION, LOCAL KNOWLEDGE AND EDUCATIONAL RESEARCH (CSILKER) held on October 24-27, 2018 University of Saint Louis, Tuguegarao City, Cagayan participated by APILIS, Leonardo T.

SUSTAINABLE ENERGY ECOSYSTEMS INTERNATIONAL CONFERENCE (SEECON) 2018 held on October 23-27, 2018 Water Front Cebu City Hotel, Lahug, Cebu City participated by VILLAFUERTE, Marlon Charles V.

5TH INTERNATIONAL RONDALLA/ PLUCKED STRING MUSIC FESTIVAL/ SYMPOSIUM WORKSHOP "PLUCKED STRING MUSIC: EVOLUTION" held on November 6-11, 2018 Silay City, Negros Occidental participated by GALLARDO, Alma Vida G.

ADCEP 2018 FIRST INTERNATIONAL CONFERENCE AND 8TH ANNUAL SCIENTIFIC MEETING held on November 29-December 2, 2018 CDC, UP Los Banos participated by SAGAYO, Nora S., MANGAHAS, Gretchen and MIGUEL, Ivy Jane

## INTERNATIONALIZATION ACTIVITIES

### A. BSU Follow-Up and Benchmarking Visit for Global Competitiveness Phase 2

A delegation from the University conducted the BSU Follow-Up and Benchmarking Visit for Global Competitiveness Phase 2 on February 19-24, 2018 in Thailand. The group was composed of the following:

**Dr. Kenneth A. Laruan**  
VP for Academic Affairs  
**Dr. Darlyn D. Tagarino**  
Director, International Relations Office  
**Engr. Editha D. Carlos**  
College of Engineering and Applied Technology Dean

**Dr. Imelda G. Parcasio**  
College of Teacher Education Dean  
**Dr. Romeo A. Gomez, Jr.**  
Graduate School Dean  
**Dr. Ronda B. Tullay**  
International Language Center Director  
**Engr. Edgar M. Molintas**  
Bokod Campus Executive Dean  
**Ms. Elizabeth M. Bay-an**  
Buguias Campus Executive Dean  
**Mr. Richard H. Kinnud**  
Cashiering Office Chief

The delegation visited the following institutions during the benchmarking:

- King Mongkut's Institute of Technology in Ladkrabang (KMITL)
- Kanchanaphisek Technical College Mahanakorn (KTCM)
- King Mongkut's International Demonstration School (KMIDS)
- Khao Hin Sorn Royal Development Study Center
- Kasem Bundit University (KBU)
- King Mongkut's University of Technology in Thonburi (KMUTT)
- Saimitsuka (Saimit School Group)



Benchmarking activity in Thailand

## B. Integrating Talent Development into Innovation Ecosystems in Higher Education (INNOTAL) Project Kick Off Meeting

Forty-two (42) participants coming from 14 universities/institution from 8 countries participated in the Kick Off Meeting of the “Integrating Talent Development into Innovation Ecosystems in Higher Education (INNOTAL) Project” held at the University on March 18-21, 2018. The project, which is being funded by ERASMUS+, aims to improve the employability of college graduates. The participants came from the following countries and universities/institutions:

### **Bulgaria**

- European Center for Quality (3)
- University of National and World Economy (4)

### **Finland**

- Vassa University of Applied Sciences (2)

### **Greece**

- University of Thessaly (2)

### **India**

- Dr. Babasaheb Ambedkar Marathwada University (2)
- RK University (3)
- University of Hyderabad (3)
- University of Madras (3)

### **Nepal**

- Agriculture and Forestry University (3)
- Pokhara University (3)

### **Philippines**

- Benguet State University (5)
- Ifugao State University (2)

### **Sri Lanka**

- University of Ruhuna (6)

### **United Kingdom**

- University of Ulster (1)

## C. ERASMUS+ Faculty Mobility

Dr. Janet P. Pablo and Dr. Asuncion L. Nagpala of the College of Agriculture were the first faculty members of the University who joined the Faculty Mobility Component of the ERASMUS+ Program. They were hosted by University of Huelva in Spain from April 23-27, 2018. During the said visit, they conducted lectures, attended seminars, visited various research institutes/facilities and farms.



Dr. Nagpala giving a lecture entitled “Strawberry Production in Northern Philippines: Status and Concerns with Emphasis on Disease Management at the University of Huelva, Huelva, Spain



Visit at the IFAPA Strawberry Research Center in Malaga, Spain

Also, Dr. Kenneth A. Laruan of the College of Forestry served as a visiting professor under the Faculty Mobility Component of the ERASMUS+ Program. He was hosted by Prof. Raimundas Rukuiza of the International Department of the Aleksandras Stulginskis University (ASU) in Lithuania from September 9-15, 2018. During the said visit, he conducted lectures and visited various forestry facilities.



Visit at the Faculty of Forest Sciences and Ecology, ASU, Lithuania



Prof. Raimundas Rukuiza on the other hand visited the University on October 25 to 30, 2018. He conducted a lecture on “Methodology and Equipment on Engineering Materials Testing” to CEAT faculty, staff members and students.



Activities during Prof. Raimundas Rukuiza’s visit at the University



## E. Integrating Talent Development into Innovation Ecosystems in Higher Education (INNOTAL) 2nd Collaboration Workshop

Dr. Darlyn D. Tagarino, Dr. Joel V. Lubrica, and Mr. Raymundo H. Pawid, Jr. attended the Integrating Talent Development into Innovation Ecosystems in Higher Education (INNOTAL) 2nd Collaboration Workshop held on October 29-31, 2018 in Pokhara, Nepal.



2nd Collaboration Workshop at Pokhara, Nepal



## F. SEA Teacher Pre-Service Teacher Exchange Program

Ten teacher education students coming from 5 universities in Indonesia were delegated to the Benguet State University from August 6 - 30, 2018 (3 in the ELS and 7 in the SLS) to be part of the SEA Teacher Pre-Service Teacher Exchange Program (Table 5).

Table 5. SEA Teacher Pre-Service Teacher Exchange Program participants from Indonesia

NAME	SEX	MAJOR FIELD	YEAR LEVEL	UNIVERSITY
Abdullah Fiqih	M	Physical Education	4th	UNJA (Jambi University)
Rista Tiana	F	Primary Teacher Education	3rd	UNS (Sebelas Maret University)
Herman Noviyandi	M	Primary Teacher Education	3rd	ULM (Lambang Mangkurat University)
Risal	M	Economics	4th	UHO (Halu Oleo University)
Wiworo	F	Math	3rd	UNS (Sebelas Maret University)
Ristya Cahyani	F	Economics	3rd	UNS (Sebelas Maret University)
Putri Maghfirotul Hasanah	F	Physics	3rd	UAD (Ahmad Dahlan University)
Ika Sakti Wulandari	F	Economics	3rd	ULM (Lambang Mangkurat University)
Rina Musannadah	F	Math	3rd	YSU (Yogyakarta State University)
Andyta Ma'rifatul Usnia	F	Science	3rd	YSU (Yogyakarta State University)



SEA Teacher Pre-Service Teacher Exchange Program at Benguet State University



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# *Research and Extension*

# RESEARCH ACTIVITIES

Underscoring the importance of knowledge to development, BSU continues to conduct studies for the improvement of products, processes and practices. Since knowledge sharing is as important as knowledge generation, accomplishments or outputs presented in this section include the presentation and publication of research papers for dissemination.

## A. Completed Researches

A total of fifty-nine (59) research projects/studies coming from seven (7) research institutes of the University were completed in 2018. Most of these researches are under the Institute of Social Research and Development (ISRD) and Horticultural Research and Training Institute (HORTI). Fund sources for these researches include BSU, NAPOCOR, USAID STRIDE, VLIR, PCAARD, DA-CAR RFU, NHF, DA-CAR, DA-BAR, CHED and the UN World Food Program

**Table 6. Distribution of Completed Researches per Center/College**

INSTITUTE/COLLEGE	RESEARCHES COMPLETED	SOURCE OF FUNDS
Institute of Social Research and Development (ISRD)	9	NAPOCOR, BSU
Horticultural Research and Training Institute (HORTI)	19	USAID STRIDE, VLIR, BSU
Cordillera Organic Agriculture Research and Development Center (COARDC)	1	PCAARRD
Northern Philippines Root Crops Research and Training Institute (NPRCRTI)	9	BSU, DA-CAR-RFU, NHF, BSU
Higher Education Regional Research Center (HERRC)	14	DA-CAR, CHED
Institute of Highland Farming System and Agroforestry (IHFS)	2	DA-BAR, BSU
Climate- Smart Agriculture Center (CSAC)	1	UN-World Food Program and Benguet State University
Cordillera Regional Apiculture Center (CRAC)	2	BSU
College of Forestry (CF)	2	CF
TOTAL	59	

## B. Journal Publications

Thirty-three (33) research papers were published in international and national refereed journals. The published articles are as follows.

### ARTICLES PUBLISHED IN INTERNATIONAL JOURNALS

***Indigenous Knowledge and Household Food Security: The role of root and tuber crops among indigenous peoples in the Northern Philippines***

by Betty T. Gayao, Dalen T. Meldoz and Grace S. Backian; published in the Diversity and Change in Food Wellbeing by Wageningen Academic Publishers

***Mapping of the spatial distribution of carbon storage of the Pinus kesiya Royle ex Gordon (Benguet pine) forest in Sagada, Mt. Province, Philippines***

by Nova D. Doyog, Roscinto Ian C. Lumbres and Young Jin Lee; published in the Journal of Sustainable Forestry by Taylor & Francis

***Height-age model and site index curves for Acacia mangium and Eucalyptus Pellita in Indonesia***

by Roscinto Ian C. Lumbres, Nova D. Doyog, Young Jin Lee, Yeon Ok Seo and Yeong Mo Son published in the Forest Science and Technology by Wageningen Taylor & Francis

***Factors influencing adoption of selected peanut protection and Production Technologies in Northern Luzon, Philippines***

by Cheryl C. Launio, Janet S. Luis and Yolanda B. Angeles published in the Technology in Society by Elsevier

***Water Quality Assessment of Major River Systems in Benguet Province, Philippines***

by Jones T. Napaldet, Erlinda C. Bestre and Arsenia M. Lumiquio published in the Journal of Wetlands Biodiversity by www.muzeulbrailei.ro

***Articulating the University's Vision and Mission and CAS Goals Among Stakeholders***

by Samuel S. Poliden, Lourdes A. Bela-o published in the International Journal of Arts and Sciences (IJAS)

***The bacterial community structure and functional profile in the heavy metal contaminated paddy soil, surrounding a nonferrous smelter in South Korea***

by Sherlyn C. Tipayno, Jaak Truu, Sandipan Samaddar, Marika Truu, Jens Konrad, Preem Kristjan, Oopkaup Mikk, Espenberg Poulami, Chatterjee Yeongyeong Kang, Kiyoon Kim and Tongmin Sa published in Ecology and Evolution by Wiley Online Library/ Open Access

***Tracing Trends, Challenges and Prospects in Theses on English as a Second Language***

by Kara Salazar Panolong published in The Asian EFL Journal by SITE Australia Ltd.

***Fishes and Shell Diversity in Major Rivers of Benguet, Philippines***

by Jones T. Napaldet, Erlinda C. Bestre and Arsenia M. Lumiquio published in the Journal of Wetlands Biodiversity by www.muzeulbrailei.ro

***Sustainability assessment of soil properties in Coffea arabica-based agroforestry systems of Atok, Benguet, Philippines***

by Conrado Bao-idang published in Journal of Biodiversity and Environmental Science by International Network for Natural Sciences

***Spore associated bacteria regulates maize root K<sup>+</sup>/Na<sup>+</sup> ion homeostasis to promote salinity tolerance during arbuscular mycorrhizal symbiosis***

by Gopal Selvakumar, Charlotte C. Shagol, Kiyoon Kim, Seunggab Han and Tongmin Sa published in BMC Plant Biology by <https://doi.org/10.1186/s12870-018-1317-2> Open Access

***Indigenous Knowledge and Practices related to Freshwater Fishes, Shells and other Macrofauna in Benguet, Philippines***

by Ruth S. Batani, Romeo A. Gomez, Jr., and Jones T. Napaldet published in the Journal of Wetlands Biodiversity by www.muzeulbrailei.ro

***Effects of Long-Term Subcultured Arbuscular Mycorrhizal Fungi on Red Pepper Plant Growth and Soil Glomalin Content***

by Gopal Selvakumar, Pyoung Ho Yi, Seong Eun Lee, Charlotte C. Shagol, Seung Gab Han, Tongmin Sa & Bong Nam Chung published in Mycobiology by <https://doi.org/10.1080/12298093.2018.1461315> Open Access

***Students' Understanding of Physics Concepts, Attitude, Engagement, and Perceptions in a Flipped Classroom Environment***

by Ederson Bawang and Maricar Prudente published in Advanced Science Letters by American Scientific Publishers

***Motivations of Secondary Mathematics Pre-Service Teachers in Choosing Mathematics Teaching as Their Career***

by Carmelo W. Madinno published in Advanced Science Letters by American Scientific Publishers

***Contextualizing Teaching Practices In A Diversified Classroom : An Assessment***

by Percyveranda Lubrica, Janet Lynn Montemayor, Evelyn Angiwan and Arnulfo Capili published in International Journal of Teaching and Education by International Institute of Social and Economic Sciences

**ARTICLES PUBLISHED IN THE MOUNTAIN JOURNAL OF SCIENCE AND INTERDISCIPLINARY RESEARCH (MSJR) PUBLISHED BY BSU, ACCREDITED NATIONAL JOURNAL**

***Makibaa: The Living Out Experiences Among the iMiligan of Upper Bauko, Mountain Province***

by Leonardo L. Samonte

***Flight for Conservation: The Birds in Benguet State University Land Reservations, La Trinidad, Benguet***

by Gerry M. Alfonso

***Math Teaching Readiness of Secondary Mathematics Pre-Service Teachers in the Cordillera Administrative Region***

by Carmelo W. Madinno

***Five-Year Performance of the Teacher Education Graduates in the Licensure Examination for Teachers***

by Desiree F. Botengan, Apler J. Bansiong and Rosita B. Kudan

***Determinants of Choosing Political Candidates among Benguet State University Students***

by Ma. Theresa B. Dolipas

***Reflections and Learning: A Case Study on Students' Community Health Nursing Immersion***

by Jude L. Tayaben, Maureen E. Gay-as, Jonalyn S. Esco and Carol Ruth L. Valles

***Water Yield of a Fog Harvester as Affected by Mesh Material and Its Orientation***

by Macaburas, D.M., Balinte, D.A., & Editha D. Carlos

***Design Fabrication and Performance Evaluation of a Motorized Cocoon Deflossing Machine***

by Angel, L.C., Cadao, J., & Afuyog, M.T.

***Pre-emptive Management Approach of Coffee Berry Borer (Hypothenus hampei Ferrari) Coleoptera: Curculionidae in Arabica Coffee (Coffea Arabica) at Atok, Benguet***

by Bisya, J.J.C., & Ligat, B.S.

***Purging the Tunnels: Decision-Making Process of Kabayan Indigenous Peoples Community on Hydro Electric Power Project (HEPP)***

by Budikey, A. S., & Nuval, P.J.

***Training Design Facilitation Framework for Adult Education: An Application of Andragogy***

by Aliping, J.B., & Parcasio, I.G.

***Multi-grade Intermediate Mathematics Teaching Schemes: The Case of Tublay***

by Feliciano, E.L., & Belleza, J. A.

***Mobile Learning and Its Effects to the Performance of Grade 9 Students in Unreal Conditionals***

by Ambat, W., & Panolong, K.S.

## C. Publication Incentive Awards

A total of 67 researchers were also given publication incentives for 2018 by the University and the Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD).

## D. Research Proposals Approved

Nine (9) research proposals with a total fund of Php 44,611,750.28 were approved by various national and international funding agencies. These researches are as follows:

<p><b><i>Action Ready Climate Knowledge to Improve Disaster Risk Management for Small Holder Farmers in the Philippines</i></b>            Proponents: Cheryll C. Launio, Alexander Fagyan, Ruth S. Batani and Carlito P. Laurean; Duration: 2 years; Budget: 52,000 AUD x 35 =1,820,000.00; Fund Source: Australian Centre for International Agricultural Research (ACIAR)</p>
<p><b><i>Assessment, Field Validation and Documentation of Evidence-based Ecosystem Adaptation Measures with Potential for Scaling Up in Indigenous Cultural Communities</i></b>            Proponents: Ruth S. Batani, Romeo L. Gomez and Cheryll C. Launio; Duration: 4 months; Budget Php 963,863.00; Fund Source: German Development Cooperation (GIZ)</p>
<p><b><i>Monitoring Microbes and Parasites of Public Health Importance in Lettuce and Strawberry Produced in Benguet Province</i></b>            Proponents: Sherlyn C. Tipayno, Criselda S. Battad and Amelia M. Kimeu; Duration: 3 years; Budget: Php 2,500,000.00; Fund Source: CHED-HEDF-DARE TO Program</p>
<p><b><i>Highland Vegetables Value Chain Analysis for Use in Policy Formulation and Future Impact Evaluation of the Agricultural Trading Centers</i></b>            Proponent: Cheryll C. Launio; Duration: 2 years; Budget: Php 3,694,037.48; Fund Source: DA-BAR</p>
<p><b><i>Documentation of Traditional Knowledge and Practices on Health: Kankana-ey in Palina, Kibungan, Benguet and Iffalig Ethnolinguistic Group of Barlig, Mountain Province</i></b>            Proponent: Ruth S. Batani; Duration: 18 months; Budget: Php 2,400,000.00; Fund Source: PCHRD</p>
<p><b><i>Development of Rainwater and Fog Harvesters in Baguio-Benguet Areas</i></b>            Proponents: Carlito P. Laurean, Alexander Fagyan, Ruth S. Batani and Leonardo Dumalhin; Duration: 2 years; Budget: Php 5,000,000.00; Fund Source: DOST – PCAARRD</p>
<p><b><i>Multi-location Trial of Ten (10) Promising Varieties of Cacao in Different Agro-climatic Zones in the Philippines</i></b>            Proponent: Belinda A. Tad-awan and Franklin G. Bawang; Duration: 3 years; Budget: Php 2,606,320.00; Fund Source: DOST – PCAARRD</p>
<p><b><i>Sustainable Nile Tilapia Culture with Challenges Posed by Climate Change</i></b>            Proponent: Ruth C. Diego and Richard P. Dumapis; Duration: 18 months; Budget: Php 1,600,000.00; Fund Source: DOST – PCAARRD</p>
<p><b><i>Science and Technology Interventions to Enhance Spray-type Chrysanthemum Production through Good Agricultural Practices (GAP) options</i></b>            Proponent: Carlito P. Laurean; Duration: 1 year; Budget: Php 3,000,000.00; Fund Source: DOST – PCAARRD</p>
<p><b><i>Purple Yam (Dioscorea alata Linn.) Quality Planting Material Production Through Aeroponics</i></b>            Proponent: Cynthia G. Kiswa; Duration: 3 years; Budget: Php 12,799,765.00; Fund Source: DOST – PCAARRD</p>
<p><b><i>Design and Development of an Improved Manually Operated Carrot Seeder</i></b>            Proponent: Marvin T. Valentin; Duration: 1 year; Budget: Php 3,344,476.80; Fund Source: DOST – PCAARRD</p>
<p><b><i>SAFE Project on Philippine Native Animals for Disaster Risk Reduction with the Integration of RFID System for Identification, Traceability and Tracking of Distributed Stock in Hazard-Prone Areas of Benguet (SNADRRITT-Benguet)</i></b>            Proponent: Sonwright B. Maddul; Duration: 2 years; Budget: Php 4,883,288.00; Fund Source: DOST – PCAARRD</p>
<p><b><i>DOST-PCAARRD National Agri-Aqua Technology Business Incubation (TBI) – Batch 2 (with 9 project components)</i></b>            Proponent: Ruth C. Diego; Duration: 2 years; Budget: Php 5, 169,824.00; Fund Source: DOST – PCAARRD</p>

## E. Research Papers Presented

Of the 274 total number of research papers presented in 2018, 11% were presented in international conferences, 9% in national conferences, 7% regional conferences and, 73% institutional conferences.

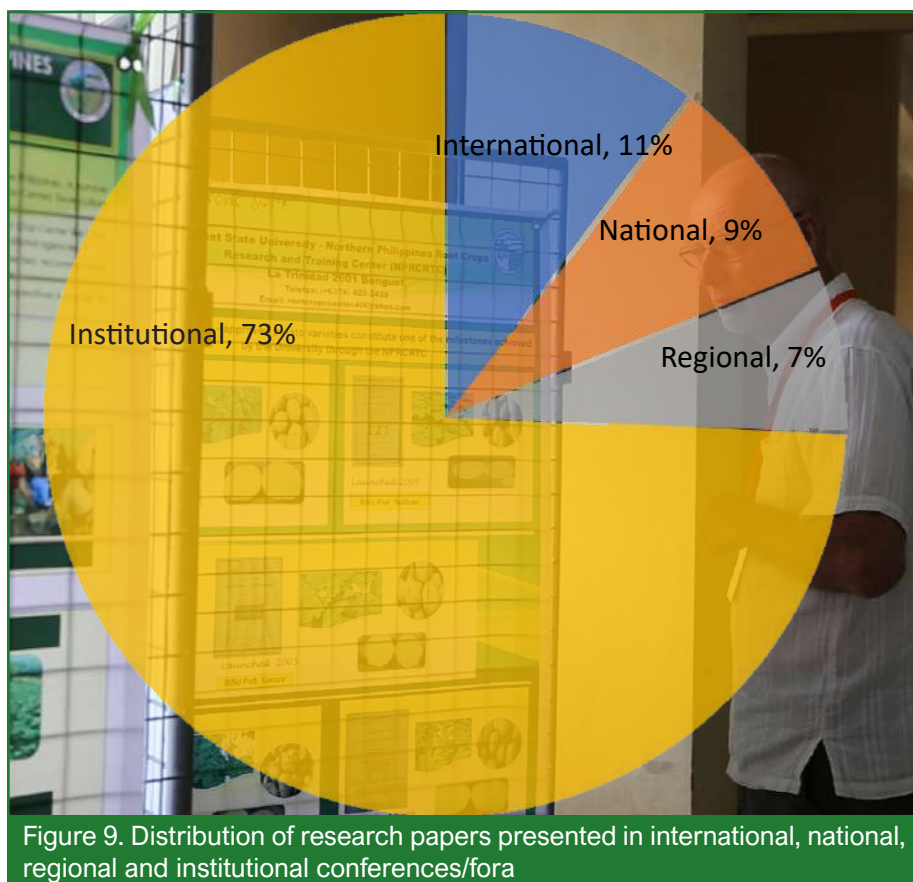


Figure 9. Distribution of research papers presented in international, national, regional and institutional conferences/fora

## F. Technologies Generated

A total of thirty-two (32) technologies were identified for possible promotion or commercialization or application for patent. These technologies were identified by evaluators during the Agency In-House Review held on August 8-10, 2018 at the Northern Philippines Root Crops Research and Training Center (NPRCRTC).

Table 7. Distribution of technologies generated by status

STATUS	No.
For Promotion	1
For patenting and information dissemination	1
For further refinement and promotion	1
For information dissemination (publication)	5
For promotion and adaptation	1
For optimum evaluation	1
For verification	5
For adaptation	2
For dissemination and verification	6
Potential technology and for adaptation	4
Potential technology and for verification and information dissemination	4
For dissemination and adaptation	1
<b>TOTAL</b>	<b>32</b>

## G. Utility Model Registered

Three (3) technologies were registered as Utility Models (UM) by the Intellectual Property Office Philippines (IPO Phil).

Invention	Inventor	Registration/ Application Number	Date Submitted (to IPOPhil)
Sweetpotato (Ipomoea Batatas) Haleya	Esther Botangen, Joyce K. Mama-o, Ines C. Gonzales	2-2017-000261	Registration issued on August 22, 2018
Hopia (Bakpia) with Sweetpotato Haleya Filling	Esther Botangen, Joyce K. Mama-o, Ines C. Gonzales	2-2017-000262	Registration issued on August 22, 2018
Process of Making Chips Enriched with Vegetables and Root Crops	Violeta B. Salda, Jofrey Byating	2-2017-000263	Registration issued on August 22, 2018

## H. Research and Extension Awards

The following were the awards received by faculty, full time researchers and students in the conduct of research and extension activities.

<b>3<sup>rd</sup> Best Agriculture Radio Program BSU-on-Air “Saludsod Mo Sungbatak”</b> Awardee: Office of Extension Services Office; Awarding Agency: Bright Leaf 2018 Agriculture Journalism Awards
<b>Finalist: Numersio E. Prudente Excellence in Research Award</b> Awardee: Julie M. Binaldo-Velasco; Awarding Agency: Polytechnic University of the Philippines in Partnership with Universitas Dhyana Pura and Asia-Pacific Consortium of Researchers and Educators, Inc.; Date: January 24-27, 2018
<b>Best Paper Award</b> Awardee: Leonila S. Sito; Awarding Agency: Philippine Association of Agri-vironment Educators and Entrepreneurs, Inc. (Passage); Date: February 16, 2018
<b>2<sup>nd</sup> place, Best in Podium Presenter</b> “Culture of Excellence in Nursing Education in the Philippines” Awardee: Lawrence Caranto; Awarding Agency: Saint Louis University, Baguio City; Date: April 28, 2018
<b>Best Qualitative Research Award and 3<sup>rd</sup> place, Best Podium Presenter, Professional Category</b> “Need for Speed: Lived Experiences of Methamphetamine Users” Awardee: Lawrence Caranto; Awarding Agency: Cordillera Regional Health Research and Development Consortium (CRHRDC); Date: April 27, 2018
<b>Achievement Award</b> Awardee: Carlito P. Laurean; Awarding Agency: Philippine Society of Soil Science and Technology (PSSST), Inc.; Date: May 4, 2018
<b>Best Paper</b> “Management of Pre-Harvest Aflatoxin Contamination of Peanut by Atoxigenic Strains of Aspergillus flavus (ASAFs) Isolated from Northern Philippine Peanuts” Awardee: Janet S. Luis; Awarding Agency: Pest Management Council of the Philippines (PMCP); Date: May 8-11, 2018
<b>Best Oral Paper Award</b> “Production practices and diversity of Heirloom Rice in an ethno-farming Community of Benguet, Philippine” Awardees: Belinda A. Tad-awan and Virginia A. Tapat; Awarding Agency: Philippine Study for the Study of Nature, Inc. (PSSN); Date: May 18, 2018
<b>2<sup>nd</sup> Place in Bee Bearding</b> Awardee: Leo E. Kimbungan; Awarding Agency: BEENET; Date: June 27-29, 2018
<b>2<sup>nd</sup> Runner up in the Economic Theme Oral Presentation</b> “Varietal Evaluation and Selection of Tomato under Conventional Cultivation in the Highlands” Awardees: Amelia M. Kimeu and Remegio T. Calayan; Awarding Agency: Palawan Council for Sustainable Development Staff (PCSDS); Date: July 26-27, 2018
<b>1<sup>st</sup> Place (Technical Category)</b> “Shiitake Production Technology Component of Arabica Coffee-Based Agro-forestry in the Cordillera” Awardees: Bernard S. Tad-awan, David Sumalang, Joel S. Acyapas, Johnwayne Tosay, Luis Calama and Marjoe S. Salavaria; Awarding Agency: BSU; Date: August 10, 2018
<b>2<sup>nd</sup> Place (Technical Category)</b> “Mapping of Spatial Distribution of Carbon Storage on the Pinus kesiya Royle ex Gordon (Benguet Pine) Forest in Sagada, Mt. Province” Awardees: Nova D. Doyog, Roscinto Ian C. Lumbres and Young Jin Lee; Awarding Agency: BSU; Date: August 10, 2018

<p><b>3<sup>rd</sup> Place (Technical Category)</b> “Development of Protocols for the Production of Inoculants and Field Application of Atoxigenic Strains of <i>Aspergillus flavus</i> (ASAFs) as Biological Control Agents (BCAs) Against Pre-Harvest Aflatoxin Contamination of Peanut” Awardees: Janet S. Luis, Benjamin T. Tabus, Alexander A. Dorate, Marijo S. Neo-neo, Marjorie P. Colas and Joan B. Pedro; Awarding Agency: BSU; Date: August 10, 2018</p>
<p><b>1<sup>st</sup> Place (Social AANR/ Extension Category)</b> “Building Farmers’ Resilience in Disaster Prone Areas in Bokod and Kabayan” Awardees: Carlito P. Laurean, Ruth S. Batani, Belinda A. Tad-awan, Alexander W. Fagyan, Andres A. Basalong, Frits Finmorog, Michael Loyd Lee, Alexander Baday and Craig Lucas; Awarding Agency: BSU; Date: August 10, 2018</p>
<p><b>2<sup>nd</sup> Place (Social AANR/ Extension Category)</b> “A Survey of Sweetpotato Infestation in Selected Communities in Benguet and Ifugao Provinces”; Awardees: Ruth S. Batani, Rhea S. Loncio, Kacy O. Labon, Raiah Ruth S. Batani, Romeo A. Gomez, Jr., and Teresita D. Masangcay; Awarding Agency: BSU; date: August 10, 2018</p>
<p><b>3<sup>rd</sup> Place (Social AANR/ Extension Category)</b> “BSU TALKnology: Touching Lives of Rural Communities in the Northern Philippine Highlands”; Awardees: Constantino T. Sudaypan and Julie I. Calatan; Awarding Agency: BSU; Date: August 10, 2018</p>
<p><b>1<sup>st</sup> Place (Social Non-AANR/ Education)</b> “The Life and Works of Bado Dangwa”; Awardees: Felipe S. Comila and Marcos A. Buliyat; Awarding Agency: BSU; date: August 10, 2018</p>
<p><b>2<sup>nd</sup> Place (Social Non-AANR/ Education)</b> “Item Response Theory Parameters of Test Questions Measuring Different Cognitive Skills in Mathematics”; Awardee: Janet Lynn S. Montemayor; Awarding Agency: BSU; Date: August 10, 2018</p>
<p><b>2<sup>nd</sup> Place (Social Non-AANR/ Education)</b> “Balancing Life: The Struggles of Working Mother with 0-5 Years Old Children”; Awardees: Alima N. Bedejim, Kacy O. Labon, Rhea S. Loncio and Ruth S. Batani; Awarding Agency: BSU; Date: August 10, 2018</p>
<p><b>3<sup>rd</sup> Place (Social Non-AANR/ Education)</b> “Strength and Consistency of Association Among Students’ Entry to Exit Academic Performances and BLEPT Ratings”; Awardees: Apler J. Bansiong and Janet Lynn S. Montemayor; Awarding Agency: BSU; Date: August 10, 2018</p>
<p><b>1<sup>st</sup> Best Paper-Oral (AFNR Category)</b> “SHIITAKE Production Technology Development as Component of Arabica Coffee-based Agroforestry in the Cordillera Highlands”; Awardees: Bernard S. Tad-awan, Joel S. Acyapas and Marjorie G. Salavaria; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>2<sup>nd</sup> BEST PAPER-ORAL (AFNR Category)</b> “Use of Atoxigenic <i>Flavus</i> Isolated from Philippine Peanuts to Arrest Pre-Harvest Aflatoxin Production in Peanut”; Awardees: Janet S. Luis, Robert C. Kmerait Jr. &amp; Anthony E. Glen; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>1<sup>st</sup> BEST PAPER-ORAL (Social Category)</b> “Sweetpotato <i>Fusarium</i> Infection in Selected Communities in Benguet and Ifugao Provinces”; Awardees: Ruth S. Batani, Rhea S. Loncio, Kacy O. Labon, Raiah S. Batani, Romeo A. Gomez Jr., &amp; Teresita D. Masangcay; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>2<sup>nd</sup> BEST PAPER-ORAL (Social Category)</b> “BSU TALKnology Touching Lives of Rural Community in the Northern Philippine Highland”; Awardees: Constantino T. Sudaypan, Julie I. Calatan, &amp; Almira P. Bentadan; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>2<sup>nd</sup> BEST PAPER-ORAL (Social Category)</b> “Indigenous Knowledge System in a Changing Landscape : The Case of Itogon Watershed”; Awardees: Ruth S. Batani, Ann Heather B. Kiang, Maeciana M. Balusadan, Raiah S. Batani and Raiza Blaise H. Pangosban; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>2<sup>nd</sup> BEST POSTER ((AFNR Category)</b> “Formulation and Evaluation of Flavored Potato Ice Cream”; Awardee: Dominga E. Gabriel; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>1<sup>st</sup> BEST POSTER (Social Category)</b> “Root &amp; Tuber Food Preparation Practices among Indigenous People in Northern Philippines”; Awardees: Dalen T. Meldoz, Betty T. Gayao &amp; Grace S. Backian; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>3<sup>rd</sup> BEST POSTER (Social Category)</b> “Informal Seed System on Greater Yam: Knowledge and Practices among Indigenous People in Northern Philippines; Awardee: Dalen T. Meldoz, Betty T. Gayao &amp; Grace S. Backian; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>3<sup>rd</sup> Place (Socio-cultural Category) Oral Presentation;</b> Awardees: Alima N. Bedejim, Kacy O. Labon, Rhea S. Loncio and Ruth S. Batani; Awarding Agency: CORCAARRD; Date: November 22, 2018</p>



<p><b>2<sup>nd</sup> Place (Socio-cultural Category) Poster Presentation;</b> Awardees: Cheryl C. Launio, Maricris C. Sotelo; Awarding Agency: CORCAARRD; Date: November 22, 2018</p>
<p><b>1<sup>st</sup> Best Paper (Science &amp; Technology Category) 2<sup>nd</sup> Regional Student Congress</b>  <b>1<sup>st</sup> Best Research Paper (Science &amp; Technology Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress;</b> “Design, Fabrication and Performance Evaluation of a Motorized Cocoon Deflossing Machine”; Awardees: Lester Clyde B. Angel and Joanna B. Cadao; Awarding Agencies: BSU, CORCAARRD; Dates: June 7, 2018; October 18, 2018</p>
<p><b>2<sup>nd</sup> Best Paper (Science &amp; Technology Category) 2<sup>nd</sup> Regional Student Congress</b>  <b>1<sup>st</sup> Best Research Paper (Science &amp; Technology Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress;</b> “Water Yield of a Fog Harvester as Affected by Mesh Material and its Orientation”; Awardees: Diosteness A. Balinte and Donalyn M. Macaburas; Awarding Agency: BSU, CORCAARRD; Dates: June 7, 2018; October 18, 2018</p>
<p><b>1<sup>st</sup> BEST PAPER (Social Category) 2<sup>nd</sup> Regional Student Congress</b>  <b>3<sup>rd</sup> Best Research Paper (Social Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress</b>  “Purging the Tunnels: Decision-Making Process of Kabayan Indigenous Peoples Community on Hydro Electric Power Project”; Aurita S. Budikey; Awarding Agency: CORCAARRD; Date: October 18, 2018</p>
<p><b>1<sup>st</sup> Best Research Paper (Social Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress</b>  “Living Outside the Bars: Lived Experiences of Family Members of Offenders” Awardees: Guerly Joy Bab-ating, Kreanjel Lei Guinto, and Chelsea Mae Kim; Awarding Agency: BSU; Date: June 7, 2018</p>
<p><b>1<sup>st</sup> Best Research Paper (Social Category-Graduate Level) 3<sup>rd</sup> University Student Congress Research Congress</b>  “Training Design Facilitation Framework for Audit Education: An Application of Andragogy” Awardee: Joanne Aliping; Awarding Agency: BSU; Date: June 7, 2018</p>
<p><b>2<sup>nd</sup> Best Research Paper (Science &amp; Technology Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress;</b> “Preemptive Management Approach of Coffee Berry Borer (<i>Hypothenemus hampei</i> Ferrari) (Coleoptera: Curculionidae) in Arabica Coffee (<i>Coffea arabica</i> Linnaeus) at Atok, Benguet”; Awardee: Jimmer John C. Bisaya; Awarding Agency: BSU; Date: June 7, 2018</p>
<p><b>2<sup>nd</sup> Best Research Paper (Social Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress</b>  “Understanding the Practice of Pasuplay System on Vegetable Production in Madaymen, Kibungan, Benguet” Awardee: Roji Mae Lorenzo; Awarding Agency: BSU; Date: June 7, 2018</p>
<p><b>2<sup>nd</sup> Best Research Paper (Social Category-Graduate Level) 3<sup>rd</sup> University Student Congress Research Congress;</b> “Multi-grade Intermediate Mathematics Teaching Schemes: The Case of Tublay”; Awardee: Jorenz Belleza; Awarding Agency: BSU; Date: June 7, 2018</p>
<p><b>3<sup>rd</sup> Best Research Paper (Science &amp; Technology Category-Undergraduate Level) 3<sup>rd</sup> University Student Congress Research Congress</b>  “Mycelial growth of <i>Scleroderma</i> sp. As affected by Culture Media”; Awardee: Winslet J. Ramos; Awarding Agency: BSU; Date: June 7, 2018</p>
<p><b>3<sup>rd</sup> Best Research Paper (Social Category-Graduate Level) 3<sup>rd</sup> University Student Congress Research Congress;</b> “Mobile Learning and its Effect to the Performance of Grade 9 Students in Unreal Condition”; Awardee: Warren Ambat; Awarding Agency: BSU; Date: June 7, 2018</p>



The 3<sup>rd</sup> BSU Student Research Congress aims to provide an avenue for young researchers to present their papers. There were 28 papers presented on the congress held on June 7, 2018 at the NPRCRTC.

## I. Books/Booklets/ Journals Published

The following books/ booklets/ journals published were results of various R & E undertakings conducted by Faculty/Researchers:



Mountain Journal of Science and Interdisciplinary Research (MJSIR); Volume 2 No. 1 June 2018; ISSN: 2619-7855; published by Benguet State University	Mountain Journal of Science and Interdisciplinary Research (MJSIR); Volume 78 No. 2 December 2018; ISSN: 2619-7855; published by Benguet State University	Eating Root crops in 100 Ways; ISBN: 978-971-006-207-2; Esther T. Botangen, Hilda L. Quindara, Joyce K. Mama-o, Dalen T. Meldoz
Root and Tuber Food Preparation Practices Among Indigenous People in Northern Philippines; ISSN 1655 8952; Betty T. Gayao, Dalen T. Meldoz, Grace s. Backian	Farm Planning and Organic Agriculture Management Practices by Jamesly C. Andres	Meal Planning and Food Preparation for Homemakers-A Module for School on the Air by Sherilyn B. Balauro
Building Climate Resilient Highland Vegetable Farming Communities – A Training Manual for Local Implementers by Carlito P. Laurean		Responsible Pet Ownership for First Time Dog Owners by Maureen Palasi-deVera
Citrus Production and Management – A Technology Guide by Nelson O. Buayan	Ethical Documentation of Traditional Knowledge and Practices – A Primer for Researchers; by Ruth Sidchogan-Batani	Benguet State University Extension Briefer; ISBN: 978-971-006-236-2; Ruth Sidchogan-Batani, Betty Listino, Ann Heather Kiwang, Natividad Demot, Christine Grace Fuchigami, Nora Sagayo, Sergio Gayao, Casmir Ligat, Freddie Telesforo, Julie Calatan, John Dolinas Jr., Maricel Dacnes, Annette Tanglib, Andrea Lyn Marzo
Strawberry Production Through Tissue Culture by Milagros R. Dumaslan		
Northern Philippines Root Crops Research and Training Center Extension Primer; ISBN: 978-971-006-244-7; Hilda L. Quindara, Cynthia G. Kiswa	College of Teacher Education Extension Primer; ISBN: 978-971-006-243-0; Percyveranda A. Lubrica	
Organic Production of Carrot in the Highlands; ISSN 0116-7736/PCAARRD Information Bulletin No. 88/2017; Darwin A. Basquial, Carlito P. Laurean, Asuncion L. Nagpala, Jocelyn C. Perez, Belinda A. Tad-awan, Luciana M. Villanueva		
Organic Production of Cabbage in the Highlands; ISSN 0116-7736/PCAARRD Information Bulletin No. 89/2017; Darwin A. Basquial, Carlito P. Laurean, Asuncion L. Nagpala, Jocelyn C. Perez, Belinda A. Tad-awan, Luciana M. Villanueva	Organic Production of Garden Pea in the Highlands; ISSN 0116-7736/PCAARRD Information Bulletin No. 90/2017; Darwin A. Basquial, Carlito P. Laurean, Asuncion L. Nagpala, Jocelyn C. Perez, Belinda A. Tad-awan, Luciana M. Villanueva	Organic Production of Potato in the Highlands; ISSN 0116-7736/PCAARRD Information Bulletin No. 91/2017; Darwin A. Basquial, Carlito P. Laurean, Asuncion L. Nagpala, Jocelyn C. Perez, Belinda A. Tad-awan, Luciana M. Villanueva

The Institute of Social Research and Development was also able to publish the maiden issue of “Informing Policy and Practice.” This publication synthesizes findings from research and development activities, or presents results of quick survey and opinion poll on social, economic and policy issues and concerns affecting the Cordillera region. It also distills key messages and provides recommendations for the information and consideration of decision – and policy – makers.

The first issue covered April to June 2018. The issue discussed the opinion of Baguio City and La Trinidad, Benguet residents on the current tax and planned increase of PUJ rates.



The Office of Extension Services launched knowledge products or publications on various RDE activities of the University on September 27, 2018 at the University Library and Information Services

### J. Renewed and New BSU Researchers as S & T Personnel for 2018

The Office of the Secretary of the Department of Science and Technology issued DOST Certificate No. MC2018-039, a Certificate of Eligibility under RA No. 8439 or the Magna Carta for Scientists, Engineers, Researchers and other S&T Personnel in Government, in which 81 researchers are eligible under RA No. 8439 as follows:

- |                              |                             |                              |
|------------------------------|-----------------------------|------------------------------|
| Alma A. Amado                | Cynthia G. Kiswa            | Charlotte C. Shagol          |
| Cunegunda D. Abellera        | Kenneth A. Laruan           | Jovita M. Sim                |
| Erlinda B. Alupas            | Carlito P. Laurean          | Constantino T. Sudaypan      |
| Marlene B. Atinyao           | Rashid B. Lokines           | John G. Tacloy               |
| Isidro B. Awal               | Normalyn T. Longay          | Belinda A. Tad-awan          |
| Grace S. Backian             | Janet s. Luis               | Bernard S. Tad-awan          |
| Sherilyn B. Balauro          | Roscinto Ian C. Lumbres     | Darlyn D. Tagarino           |
| Andres A. Basalong           | Valentino L. Macanes        | Leoncia L. Tandang           |
| Ruth S. Batani               | Sonwright B. Maddul         | Paquito P. Untalan           |
| Criselda S. Battad           | John James F. Malamug       | Anna Liza B. Wakat           |
| Franklin G. Bawang           | Teresita D. Masangcay       | Myrna B. Walsiyen            |
| Editha D. Carlos             | Dalen T. Meldoz             | Jesson Y. Del-amen           |
| Dante S. Chichioco           | Asuncion L. Nagpala         | Elizabeth A. Lascano         |
| Johnny G. Dati               | Sano L. Ngiwas              | Jude L. Tayaben              |
| Emilia F. Dayap              | Paul Joseph A. Nuval        | Leila Mary A. Ayban          |
| Imelda O. Degay              | Janet P. Pablo              | Darwin A. Basquial           |
| Milagros R. Dumaslan         | Danilo P. Padua             | Elizabeth A. Dom-ogen        |
| Maria Luz D. Fang-asan       | Casiano S. Pagadan          | Jophr L. Galian              |
| Christine Grace S. Fuchigami | Joyce N. Paing              | Roger T. Gayumba             |
| Mursha D. Gapasin            | Magdalena D. Pandosen       | Cus M. Kilakil               |
| Mary Arnel D. Garcia         | Marissa R. Parao            | Cheryll C. Launio            |
| Sergio T. Gayao              | Nordalyn B. Pedroche        | Gretchen Shagami C. Mangahas |
| Romeo A. Gomez Jr.           | Hilario C. Perez            | Ammie D. Ngaotoy             |
| Fernando R. Gonzales         | Jocelyn C. Perez            | Nestor E. Pilayan            |
| Ines C. Gonzales             | Aurora F. Piñon             | Hilda L. Quindara            |
| Amelia M. Kimeu              | Louisa P. Pladio            | Gennie B. Soyon              |
|                              | Esther Josephine D. Sagalla | Sherlyn C. Tipayno           |
|                              | Violeta B. Salda            |                              |

## EXTENSION ACTIVITIES

### A. Writeshops/Trainings/Seminars Conducted/Facilitated

A total of 136 seminars/trainings/writeshops/information dissemination activities were conducted by the various centers, institutes, and colleges of the university with a total of 8,660 participants.

Table 9. Trainings/Seminars/Workshops Conducted

OFFICE/CENTER/INSTITUTE/ COLLEGE	NUMBER OF TRAININGS CONDUCTED	NUMBER OF PARTICIPANTS
Office of Extension Services (OES)	14	1,672
Horticulture Research and Training Institute (HORTI)	15	1,901
Institute of Highland Farming Systems and Agroforestry (IHFSA)	4	119
Northern Root Crops Research and Training Center (NPRCRTC)	13	607
Institute of Social Research and Development (ISRD)	18	892
Office of Research Services (ORS)	4	295
Agri-based Technology Business Incubator(ATBI)	23	797
Cordillera Organic Agriculture Research and Development Center (COARDC)	3	60
Higher Education Regional Research Center (HERRC)	5	224
Climate-Smart Agricultural Center (CSAC)	7	320
Research and Extension Publication Office (REPO)	5	244
Cordillera Regional Apiculture Center (CRAC)	1	23
College of Home Economics and Technology (CHET)	6	198
College of Teacher Education (CTE)	13	543
College of Arts and Sciences [CAS]	2	485
College of Nursing (CN)	1	150
College of Agriculture [CA]	2	130
<b>Total</b>	<b>136</b>	<b>8,660</b>



The Office of Extension Services conducted the School-on-Air graduation on mushroom production held on December 8, 2018 at the BSU Elementary Laboratory School covered court.

## B. Continuing and New Linkages

The University has maintained and established new partnership with the different Government and Non-government institutions/agencies/organizations through the implementation of RDE programs and projects.

<b>INTERNATIONAL</b>		
<p><b>Partner: Australian Centre for International Agricultural Research-Philippine Institute for Development Studies (ACIAR-PIDS)</b>            Project: Implementation of the project "Action Ready Climate Knowledge to Improve Disaster Risk Management for Small Holder Farmers in the Philippines" Duration: 2018-2019</p>	<p><b>Partner: German Development Cooperation (GIZ)</b>            Implementation of the project Assessment, Field Validation and Documentation of Evidence-based Ecosystem Adaptation Measures with Potential for Scaling Up in Indigenous Cultural Communities; Duration: 2018</p>	
<p><b>Partner: World Food Programme</b>            Project: Implementation of the project "Building Farmers' Resilience in Disaster Prone Areas in Bokod and Kabayan, Benguet"; Duration: September 2017-July 06, 2017; Date of MOA Approval: Jan-18</p>		
<p><b>Partner: Research Triangle Institute [RTI]</b>            Project: Implementation of the project Development of Protocols for the Production of Inoculants and Field Application of Atoxigenic Strains of <i>Aspergillus flavus</i> [ASAFs] As Biological Control Agents [BCAs] Against Pre-Harvest of Aflatoxin Contamination of Peanut / Grant Agreement; Duration: December 01, 2016 - November 30, 2017; Date MOA signed: December 01, 2016</p>	<p><b>Partner: Neys-Van Hoogstraten Foundation</b>            Project: Implementation of the project Ecosystem services and dynamics of Ecosystem services and dynamics of indigenous knowledge in harnessing food security and biodiversity conservation in the highlands of Cordillera, Philippines; Duration 2017 - 2018</p>	
<b>NATIONAL</b>		
<p><b>Partner: Commission on Higher Education</b>            Project: Implementation of research and development projects; Duration: 2017-2019</p>	<p><b>Partner: Kayapa Local Government Unit</b>            Project: Hands-On On-Site Skills Training [HOST] on Strawberry Production / Memorandum of Agreement; Duration: Three [3] years upon signing of MOA; Date approved: April 22, 2015</p>	<p><b>Partner: DOST</b>            Project: Sustainable Nile Tilapia Culture with Challenges Posed by Climate Change; Duration: 2 years; Date MO Approved: November 21, 2017 during the Directors' Council</p>
<p><b>Partners: Commission on Higher Education, MS Enverga University Foundation, University of Southern Mindanao, Philippine Normal University</b>            Project: "Investigating the Teaching and Learning of STEAM (Science, Technology, Engineering, Agriculture-Fisheries and Mathematics) in Philippine Higher Education Institutions towards Development of a Lifelong Learning Framework for STEAM Faculties and Students"; Duration: 2016-2018</p>		
<p><b>Partner: Department of Agriculture - Bureau of Agricultural Research</b>            Project: Establishment of Bio-Organic Waste Production Facility in Support to R &amp; D in BSU, Cordillera Administrative Region; Duration: Jan-December 2017            Project: Promotion and Commercialization of Orange Flesh Sweetpotato in Vitamin A Deficiency Areas in Cordillera Region; Duration: 2 years; Date MOA signed: Sept. 27, 2017</p>		
<p><b>Partner: Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (PCAARRD)-DOST</b>            Project: DOST-PCAARRD-BSU Agriculture and Food Technology Business Incubator (Strengthening the BSU-ATBI/IC through Capability Building and Program Enhancement (CaPE); Duration: 2 years; Approved by the DOST Executive Committee on August 10, 2017            Project: Use of Carrageenan Plant Food Supplement [PFS] for Selected Cool-Season Crops [Lettuce, Broccoli, Cabbage, and Strawberry] / Memorandum of Agreement; Duration: October 01, 2016 - September 31, 2018; Date Approved: September 27, 2016            Project: Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region [CAR] Program / Memorandum of Agreement; Duration: September 01, 2017 - August 31, 2019; Date MOA Signed: September 19, 2017</p>		
<p><b>Partner: National Power Corporation (NAPOCOR)</b>            Project: Institution Building for Indigenous People in Itogon Watershed Area with Focus on IKS; Duration: 3 years</p>	<p><b>Partner: Canlaon Potatoes and Flowers Co.</b>            Project: Research and Extension activities            Duration: February 27, 2017-February 28, 2018            Date MOA approved/signed: February 27, 2017</p>	
<p><b>Partner: Nueva Ecija University of Science and Technology</b>            Project: Sweetpotato Production and Processing for Rice Farmers of Nueva Ecija Through Community-Based Promotion on Variety Production and Processing of Root Crops; Date MOA approved: June 30, 2017</p>	<p><b>Partner: Cavite State University</b>            Project: Enhancing and Operationalizing Intellectual Property [IP] Management and Business Development Office in Consortia Member Agencies / Memorandum of Agreement; Duration: October 01, 2017 - September 30, 2019; Date approved: October 20, 2017</p>	

<b>REGIONAL</b>		
<p><b>Partners: Isabela State University, Agricultural Training Institute-Regional Training Center Cordillera Administrative Region, Department of Agriculture-Regional Field Office Cordillera Administrative Region</b></p> <p>Project: Extension Activities, Roll-out of Technology Based Goat Options in Cordillera Administrative Region</p>	<p><b>Partner: Department of Science and Technology-CAR</b></p> <p>Project: Establishment of the Food Innovation Center in the Cordillera Region</p> <p>Duration: March 16, 2015 to March 15, 2018</p> <p>Date Approved: March 16, 2015</p>	
<p><b>Partner: National Irrigation Administration (NIA)</b></p> <p>Conduct of the 2018 farmers' satisfaction survey</p> <p>Date approved: October 29, 2018</p>	<p><b>Partner: Department of Trade and Industry-CAR</b></p> <p>Project: Shared Services Facility; Duration: October 7, 2014 to 6 years from execution hereof; Date approved: October 7, 2014/ Confirmed through BOR Res, No. 2325, s. 2014</p>	
<p><b>Partner: Department of Agriculture - Regional Field Office-Cordillera Administrative Region</b></p> <p>Project: Implementation of the following Researches:</p> <ol style="list-style-type: none"> <li>1. "Conserving and Increasing Productivity and Value of Heirloom Rice in the Cordillera"; Duration: 2017-2018; Date approved: Jun-17</li> <li>2. Propagation of improved quality plant materials on potato, sweetpotato and yam to enhance production; Duration: 1 year; Date approved: Nov. 2017</li> </ol>	<p><b>Partner: Cordillera Regional Health Research and Development Consortium (CRHRDC)</b></p> <p>Partnership: BSU as Committee Member;</p> <p>Duration: Continuing</p>	<p><b>Partner: Population Commission - CAR</b></p> <p>Project: Establishment of the Adivayan Youth Health Center;</p> <p>Duration: Three [3] years upon signing of MOA; Date approved: April 03, 2017</p>
<p><b>Partner: Local Government Unit of Kibungan and Barangay Palina, Kibungan</b></p> <p>Extension Project: Education, Propagation and Conservation of Traditional Food Crops, as Embodiment of IKSPs in Palina, Kibungan;</p> <p>Duration: 3 years; Date approved: Aug. 2, 2017</p>	<p><b>Partner: Local Government Unit of La Trinidad</b></p> <p>Project: Implementation of Science and Technology Community – Based Farm (STCBF) on Spray Chrysanthemum Production;</p> <p>Duration: 2 years</p>	
<p><b>Partner: LGU of Bokod, Benguet</b></p> <p>Implementation of the Project " Building Farmers' Resilience in Disaster-Prone Areas in Bokod and Kabayan, Benguet; Duration: 1 year</p>	<p><b>Partner: LGU Kabayan, Benguet</b></p> <p>Implementation of the Project " Building Farmers' Resilience in Disaster-Prone Areas in Bokod and Kabayan, Benguet; Duration: 1 year</p>	
<p><b>Partner: Saint Louis School Center, Incorporated</b></p> <p>Implementation of the "Students Transformation and Enabling Project"</p> <p>Three [3] years upon signing of MOA</p> <p>June 30, 2016</p>	<p><b>Partner: Timpuyog Dagiti Umanamong Iti BSU Internal Guarantee System (TUBIGS), Inc.</b></p> <p>Nature of partnership: Contract [BSU and TUBIGS]; Date approved: June 23, 2017</p>	
<p><b>Partner: Diocese of Baguio</b></p> <p>Implementation of the "Our Farmers Haven Project"</p>	<p><b>Partner: Barangay Basil, Tublay</b></p> <p>Adopt-a-Community Program / Memorandum of Agreement;</p> <p>Duration: continuing</p>	



Personnel from the Northern Philippines Root Crops Research and Training Center conducted the Farmer's Training on Potato Bacterial Wilt "Kuyos/Dapog" on September 13-14, 2018 at MPSPC Bauko, Mt. Province

## OTHER R & E HIGHLIGHTS

### A. Guideline Formulated

BSU Guidelines on Application for Hazard Allowance (BOR Resolution No. 2869, s. 2018)

### B. Capacity building activities

The Research and Extension conducted Executive Council Meetings and a seminar workshop on International Organization for Standardization on April 16-18,2018 at San Juan, La Union.



Scan this QR code for the detailed BSU RDE  
Sectoral Report for CY 2018



# *Administration and Finance*



# ADMINISTRATION

The administrative division's main task is to formulate or update plans, programs, policies, guideline and procedures pertaining to human resource management and development programs, records management, property and procurement management, maintenance of building and facilities, land reservation, security services and transportation services.

## A. Human Resource Management

Benguet State University was able to reach Maturity Level 2 of the Civil Service Commission's PRIME-HRM systems and Competencies in learning and development. PRIME-HRM stands for Program to Institutionalize Meritocracy and Excellence in Human Resource Management. This serves as a guide among government agencies in transforming every government employee into a "lingkod bayani".

### 1. Personnel Profile

In 2018, the University has a total workforce of 1,146 comprising of 692 regular employees and 454 Job Order and Contract of Service. There were 30 employees who were separated from the service, of which, 18 retired, 7 resigned and 5 died. Additional information are shown in the following tables.

**Table 10. Facilitated appointments for 2018**

<i>Original</i>	<i>Reappointment</i>	<i>Reclassification</i>	<i>Promotion</i>	<i>Demotion</i>	<i>Transfer</i>	<i>Reemployment</i>	<i>Total</i>
36	7	3	18	2	2	9	77

**Table 11. Filled and Unfilled Plantilla items according to Campus based Personnel Services Itemization and Plantilla of Personnel (PSIPOP)**

	<i>BOKOD</i>		<i>BUGUIAS</i>		<i>LA TRINIDAD</i>		<i>TOTAL</i>		
	Filled	Unfilled	Filled	Unfilled	Filled	Unfilled	Plantilla items based on PSIOP	Filled	Unfilled
1st Level (SG 1-10)	9	-	13	-	199	10	231	<b>221</b>	10
2nd Level (SG 11-24)	21	8	43	4	371	33	480	<b>435</b>	45
3rd Level (SG 25-30)	-	1	-	-	36	21	58	<b>36</b>	22
<b>TOTAL</b>	<b>30</b>	<b>9</b>	<b>56</b>	<b>4</b>	<b>606</b>	<b>64</b>	<b>769</b>	<b>692</b>	<b>77</b>

**Table 12. Total Non-Plantilla Positions as of December 31, 2018**

<i>Position Description</i>	<i>Teaching</i>		<i>Non-Teaching</i>		<i>Total</i>
	Male	Female	Male	Female	
Contractual	-	-	-	1	<b>1</b>
Job Order/Contract of Service	26	47	123	138	<b>334</b>
Income Generating Projects (IGP)	-	-	18	37	<b>55</b>
Special Projects (Outside Funded)	-	-	28	36	<b>64</b>
<b>TOTAL</b>	<b>26</b>	<b>47</b>	<b>169</b>	<b>212</b>	<b>454</b>

## 2. Personnel Development

A total of 90 employees were assisted under the Continuing Professional Education Services (COPEs) of the University and 339 staff availed of the Psychological Test conducted at the Learning and Development Services (LEADS) Center. The breakdown of the number of beneficiaries, assistance and services offered to employees are given in Tables 13 and 14.

Table 13. Recipients of various services/assistance offered			
Nature of Assistance/Service Provided	Number of Recipients		Total
	Male	Female	
<b>Scholarships</b>			
a. Full Scholarship (Category A)			
-Masteral	2	-	<b>2</b>
-Doctorate	13	1	<b>14</b>
b. Reduced Load (Category D)			
-Doctorate	5	1	<b>6</b>
<b>Short Term Foreign Travel</b>			
-Paper Presentation	12	7	<b>19</b>
-Trainings	6	1	<b>7</b>
-Others (Linkages, Benchmarking, Sports)	32	2	<b>34</b>
<b>Thesis/Dissertation Assistance</b>	6	2	<b>8</b>
<b>Psychological Test</b>	110	229	<b>339</b>
<b>TOTAL</b>	<b>186</b>	<b>243</b>	<b>429</b>

Table 14. Number of scholars who completed their respective programs in 2018			
Scholarship	PhD	MS/MA	Total
Local	6	4	<b>10</b>
Thesis/Dissertation Grantees	2	1	<b>3</b>
<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>13</b>

## 3. Trainings and Seminars

Twenty-two institutional trainings and seminars conducted by the LEADS Center for 2018 were participated in by both employees and students. The number of participants is summarized in the following table.

Table 15. Trainings and seminars conducted				
Title	Number of Participants			
	Faculty	Staff	Students	Total
Heads of Offices and Designates' Investiture for Good Governance (HOODING Program)	70	19	-	89
Review and Re-engineering of BSU Organizational Structure	4	3	-	7
Administrative Learning and Development Session	51	152	-	203
Multi-Disciplinary Discourse IV	35	3	244	282
Collective Negotiation Agreement Orientation	174	6	-	180
Capacity Building on BSU ISO Financial Protocol	50	110	-	160

Table 15. Continued...

Title	Number of Participants			
	Faculty	Staff	Students	Total
Multi-Disciplinary Discourse V (MDD V)	10	4	136	150
Salamat-Mabuhay 2018	150	150	-	300
Special Treats for BSU Employees, 118th Philippine Civil Service Commission Anniversary Celebration	277	454	-	731
Values Restoration Program, Public Accountability and Values Enhancement Seminar (BSU-PAVES)	91	43	-	134
Academic Sector's Human Resource Planning and Design	37	6	-	43
CALAJO IV: Career Ladder Jumpstart Orientation,	19	22	-	41
New Non-Teaching and Teaching Employees	17	-	-	17
Recreating Self and Purpose through Ecotherapy and Transcendence (RESPECT) for Retirees	8	5	-	13
Harnessing the BeSt in U: A Stress Resiliency Program	-	25	-	25
Orientation on Procurement Procedures and Protocols,	2	89	-	91
Skills Development Seminar for Non-Teaching Personnel,	-	218	-	218
Corporate Values and Social Responsibility Year-end Experiential Learning: Reflecting, Giving, Merrymaking	241	457	-	698

CSC Leadership Competencies, Tax Reform for Acceleration and Inclusion (TRAIN) Law, Benguet State University International Organization for Standardization (BSU ISO) 9001:2015, and Updates on BSU Policies among others were the topics discussed in the Heads of Offices and Designates' Investiture for Good Governance (HOODING) Program on March 13, 2018 at the National Educators' Academy of Philippines (NEAP), Wangal, La Trinidad.



## B. Procurement and Property Management

### 1. Purchases

The Procurement Management Office (PMO) is in-charge of the acquisition of all supplies, materials and equipment of the University. For 2018 the office processed the purchase of the following:

Table 16. Amount of Purchases according to fund cluster for 2018

Item	Fund Cluster				Total
	General Fund (GF)	Internally Generated Income (IGI)	Business Type Income (BTI)	Special Projects (SP)	
Various Supplies and Materials	37,367,984.04	34,857,744.11	32,947,692.97	20,473,752.28	125,647,137.40
Equipment	4,736,740.50	15,256,827.56	278,223.80	28,424,983.41	48,696,775.27
Motor Vehicle	-	-	90,000.00	-	90,000.00
Repair and Maintenance (Facility and Equipment)	2,665,955.95	1,530,423.82	59,980.00	75,656.56	4,332,016.33
Services	12,223,298.38	1,725,268.80	-	1,088,418.00	15,046,985.18
Infrastructure	79,763,000.00	7,387,740.37	-	496,563.36	87,647,303.73
<b>Total</b>	<b>135,777,649.16</b>	<b>60,758,004.66</b>	<b>33,375,896.77</b>	<b>50,559,373.61</b>	<b>281,460,217.91</b>

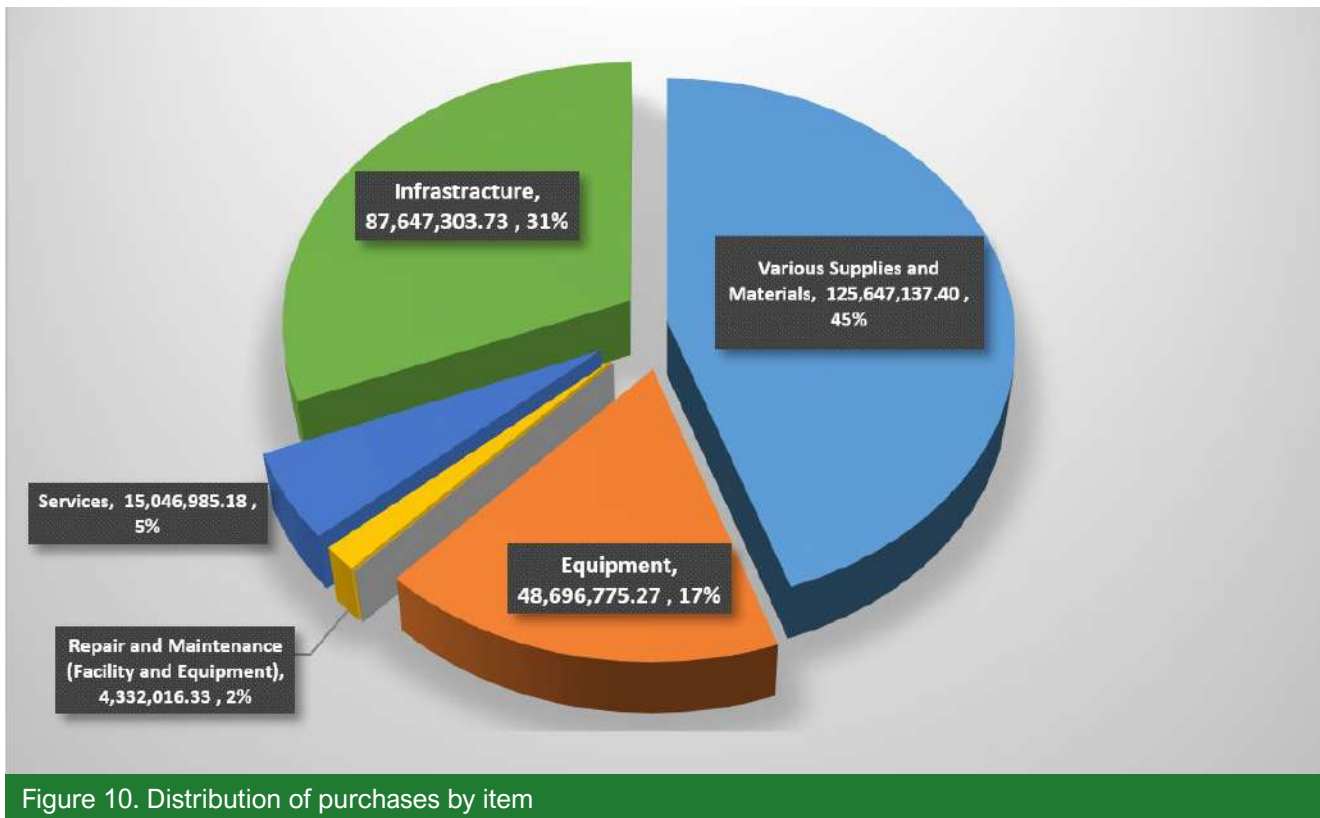


Figure 10. Distribution of purchases by item

## 2. Issuances

The Supply and Property Management Office (SPMO) is tasked with the distribution of the items procured for the operation of the university. The office inspects and issues supplies and materials to the different end-user units. The 2018 issuances in equivalent peso value according to fund cluster is given in Table 17.

Item	Fund Cluster				Total
	General Fund (GF)	Internally Generated Income (IGI)	Business Type Income (BTI)	Special Projects (SP)	
Various Supplies and Materials	32,776,645.42	24,784,570.82	671,067.61	39,769,746.34	98,002,030.19
Raw Materials	-	-	56,303,723.75	-	56,303,723.75
Equipment	14,409,703.50	19,948,351.26	259,865.00	6,576,276.85	41,194,196.61
<b>Total</b>	<b>47,186,348.92</b>	<b>44,732,922.08</b>	<b>57,234,656.36</b>	<b>46,346,023.19</b>	<b>195,499,950.55</b>

## 3. Infrastructure Projects

The construction of new buildings and the rehabilitation or repair of existing facilities in the university were continuously conducted in 2018. A total of twenty-nine (29) infrastructure projects from CY 2017 and 2018 were being implemented, at the end of the year, eighteen (18) projects with a total contract cost of Php. 67,285,759.28 were completed while eleven (11) projects with a total unpaid balances amounting to Php. 65,295,471.79 are still ongoing. These projects were facilitated by the Procurement Management Office (PMO), Planning and Development Office (PDO) and the Finance Sector.

STATUS OF PROJECT	NUMBER OF PROJECTS			TOTAL AMOUNT	
	2017	2018	TOTAL	ALLOTMENT	CONTRACT COST
COMPLETED PROJECTS					
General Fund (GF)	6	10	16	68,156,907.56	65,631,595.93
Internally Generated Income (IGI)		2	2	1,666,971.65	1,654,163.35
Subtotal Completed Projects	6	12	18	69,823,879.21	67,285,759.28
ONGOING PROJECTS					
General Fund (GF)	3	7	10	120,659,771.44	119,183,588.57
Internally Generated Income (IGI)		1	1	3,000,000.00	3,000,000.00
Subtotal Ongoing Projects	3	8	11	123,659,771.40	122,183,588.57
<b>Grand Total</b>	<b>9</b>	<b>20</b>	<b>29</b>	<b>193,483,650.65</b>	<b>189,469,347.85</b>

## 4. Repairs and Maintenance of Facilities

The Repair and Maintenance of facilities were conducted by the General Services Office (GSO). The office was able to accomplish 87% out of the 2,202 target number of projects identified for the year. The accomplishment includes completion of 52 programmed repair works, 1802 maintenance works, and 128 emergency/ unprogrammed works.

# FINANCE

The finance division is in charge of all the financial transactions of the university, it ensures that all are in accordance with existing rules and regulations. The 2018 total utilization according to fund cluster is summarized as follows:

**Table 19. Budget Utilization for 2018 according to fund cluster**

Fund Cluster	Total Allotment	Total Obligated	Amount Disbursed	Rate	
				(5)=(3/2) Utilization	(6)=(4/3) Disbursement
(1)	(2)	(3)	(4)		
<b>GENERAL FUND</b>					
Personnel Services	418,197,635.00	417,817,900.37	417,440,007.98	99.91	99.91
MOOE	78,794,000.00	78,451,002.91	76,879,019.99	99.56	98.00
Capital Outlay	79,763,000.00	79,381,676.72	43,518,439.70	99.52	54.82
<b>Sub-total</b>	<b>576,754,635.00</b>	<b>575,650,580.00</b>	<b>537,837,467.67</b>	<b>99.81</b>	<b>93.43</b>
<b>INTERNALLY GENERATED INCOME</b>					
Personnel Services	10,273,935.96	8,165,651.49	6,551,534.89	79.48	80.23
MOOE	229,701,026.67	95,681,361.77	82,847,995.54	41.65	86.59
Capital Outlay	50,727,868.57	25,052,647.19	16,693,762.88	49.39	66.63
<b>Sub-total</b>	<b>280,702,831.20</b>	<b>128,899,661.45</b>	<b>106,093,293.31</b>	<b>44.34</b>	<b>82.31</b>
<b>BUSINESS-TYPE INCOME</b>					
Personnel Services	125,000.00	74,169.26	70,623.77	59.34	95.22
MOOE	75,867,572.38	62,410,765.44	62,200,972.79	82.26	99.66
Capital Outlay	2,045,000.00	526,784.00	407,885.00	25.76	77.43
<b>Sub-total</b>	<b>78,037,572.38</b>	<b>63,011,718.70</b>	<b>62,679,481.56</b>	<b>80.75</b>	<b>99.47</b>
<b>TF 911 &amp; SPECIAL PROJECTS</b>					
<b>Sub-total</b>	<b>213,614,344.34</b>	<b>132,215,801.60</b>	<b>111,551,584.76</b>	<b>61.89</b>	<b>84.27</b>



Scan this QR Code for a detailed version of the Administration and Finance Annual Report 2018



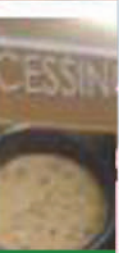
Scan this QR Code for a detailed version of the Finance Division Annual Report 2018



This QR Code leads to the Financial Accountability Reports of BSU which are regularly updated



# *Business Affairs*



## INCOME GENERATING PROJECTS

### A. FINANCIAL PERFORMANCE

The various income generating projects of the University earned a total net income of Php 7,615,497.10 as shown in Table 20. The Poultry, SLS Canteen and the Marketing Center are the top three projects that earned the highest income.

**Table 20. Financial performance of IGPs in 2018.**

IGP	TOTAL REVENUE	Less: CURRENT OPERATING EXPENSES			SURPLUS (Deficit) for the period (Net Income)
		TOTAL EXPENSES BEFORE IMPUTED COSTS	TOTAL IMPUTED COSTS	TOTAL OPERATING EXPENSES	
BAKERY	9,147,098.31	8,116,876.73	425,388.16	8,542,264.89	<b>604,833.42</b>
FOOD PROCESSING CENTER	8,673,687.67	7,514,253.96	243,796.48	7,758,050.44	<b>915,673.23</b>
FOOD SCIENCE RESEARCH AND INNOVATIVE CENTER	2,078,657.36	1,359,887.59	1,334,610.68	2,694,498.27	<b>(615,840.91)</b>
POULTRY	14,623,894.99	11,667,812.27	596,782.77	12,264,595.04	<b>2,359,299.95</b>
CVM ANIMAL HOSPITAL	1,253,103.42	1,089,913.75	202,636.48	1,292,568.23	<b>(39,464.81)</b>
BSU CANTEEN 1	9,457,201.00	8,912,433.05	389,070.34	9,301,503.39	<b>155,697.61</b>
GARMENTS	852,659.00	583,572.57	360,338.11	943,910.68	<b>(91,250.98)</b>
MARKETING CENTER	28,184,238.69	25,892,799.44	221,561.70	26,114,341.14	<b>2,069,897.55</b>
SLS CANTEEN	8,609,876.91	5,923,940.61	429,248.27	6,353,188.88	<b>2,256,688.03</b>
<b>TOTAL</b>	<b>82,880,418.05</b>	<b>71,061,487.97</b>	<b>4,203,432.98</b>	<b>75,264,920.95</b>	<b>7,615,497.10</b>

### B. VARIANCE ANALYSIS

The University realized a gross income of Php 82,880,418.84 for the period ended December 31, 2018. The realized gross income is equivalent to 106% of the annual projected gross income.

**Table 21. Variance analysis of IGPs in 2018.**

NAME OF PROJECT (a)	Actual Revenue/Gross Income (Covering the period January 2018 to September 201) (b)	Projected Revenue/ Income for calendar year 2018 (c)	Variance (e=b-c)	Percentage of Realized Income versus Projected Income (d=b/c)	Remarks (target vs realized)
BAKERY	9,147,098.31	9,000,000.00	147,098.31	1.02	0.02
FOOD PROCESSING CENTER	8,673,687.67	12,000,000.00	(3,326,312.33)	0.72	(0.28)
FOOD SCIENCE RESEARCH AND INNOVATIVE CENTER	2,078,657.36	3,500,000.00	(1,421,342.64)	0.59	(0.41)
POULTRY	14,623,894.99	12,000,000.00	2,623,894.99	1.22	0.22
CVM ANIMAL HOSPITAL	1,253,103.42	1,800,000.00	(546,896.58)	0.70	(0.30)
BSU CANTEEN 1	9,457,201.00	9,000,000.00	457,201.00	1.05	0.05
GARMENTS	852,659.70	1,200,000.00	(347,340.30)	0.71	(0.29)
MARKETING CENTER	28,184,238.69	25,000,000.00	3,184,238.69	1.13	0.13
SLS CANTEEN	8,609,876.91	5,000,000.00	3,609,876.91	1.72	0.72
<b>TOTAL</b>	<b>82,880,418.05</b>	<b>78,500,000.00</b>	<b>4,380,418.05</b>	<b>1.06</b>	<b>0.06</b>



## B. TREND ANALYSIS

The total net income of the IGPs has generally increased within five years (2014-2018).

Table 22. Five-year trend analysis of IGPs.

IGP	December 31, 2014	December 31, 2015	December 31, 2016	December 31, 2017	December 31, 2018
BAKERY	1,352,962.08	1,262,525.20	1,466,019.45	1,382,888.91	604,833.42
FOOD PROCESSING CENTER	1,561,291.50	1,674,189.54	(262,598.25)	1,509,432.94	915,637.23
POULTRY	(106,785.91)	22,031.29	(1,042,050.66)	3,499,062.76	2,359,299.95
CVM ANIMAL HOSPITAL	176,222.74	48,348.45	(484,892.34)	(26,094.16)	(39,464.81)
BSU CANTEEN 1	574,645.53	1,366,097.55	(77,632.79)	1,242,838.36	155,697.61
GARMENTS	78,402.76	171,393.13	130,038.09	348,557.16	(91,250.98)
MARKETING CENTER	819,725.98	985,667.95	2,010,525.88	(79,997.72)	2,069,897.55
SLS CANTEEN	698,220.16	1,392,094.68	(286,409.93)	29,372.08	2,256,688.03
<b>TOTAL</b>	<b>5,154,684.84</b>	<b>6,922,347.79</b>	<b>1,452,999.45</b>	<b>7,906,060.33</b>	<b>8,231,338.01</b>

The following QR codes lead to the official and detailed reports of the Financial Performance of IGPs from the University Accounting Office



DETAILED  
FINANCIAL  
PERFORMANCE  
OF IGPs 2018



VARIANCE  
ANALYSIS  
OF IGPs  
2018



5-YEAR  
DETAILED  
FINANCIAL  
PERFORMANCE  
OF IGPs



5-YEAR  
TREND  
ANALYSIS  
OF IGPs

### IGPS

There are 8 Income Generating Projects (IGPs) in the University where visitors come to learn about its operations.



### STRAWBERRY FARM

The strawberry farm is about 38 ha with 470 partners tilling it.



### FACILITIES

The University facilities is open to stakeholders, visitors and guests.



# UNIVERSITY BUSINESS AFFAIRS

## A. PARKING

From January to December 31, 2018, the University Business Affairs (UBA) was able to generate PhP 2,777,200.00 from parking fees.



**113,860**

approx parking tickets issued for 2018

**300**

approx parking slots

## B. FARM PARTNERSHIPS

The University leases some of its lands to farmer cooperators, Sariling Sikap partners and ATBI Incubatees.

**FARM PARTNERSHIPS**

- The farm is about 38 ha and 24 ha rented out to stakeholders.
- 492 MOAs with 500sqm\* cut per MOA

1. Farmer Co-operators (258)  
2. Sariling Sikap (183)  
3. ATBI Incubatees (51)

\*rental is P15.00/sq/yr  
Approx rental is P3.6M/yr

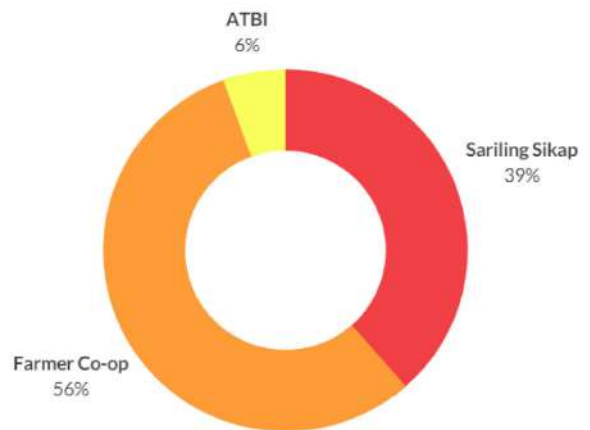


Figure 11. Distribution of farm partnerships

The UBA facilitated the renewal of MOAs with farmer cooperators and Sariling Sikap programs at the Strawberry Farm and other leasable properties of the University.

Table 23. Lessees with Memorandum of Agreement (MOA)

PARTICULAR	Lessee w/MOA
BALILI PARKING AREA	59
FARMER INCUBATEE	51
FARMER COOPERATOR	258
STRAWBERRY FIELDS-HOTEL AREA	23
SARILING SIKAP	183
UMBRELLA STALLS	98
BETAG SATELLITE	23
BACKFILLED AREA	158
CENTRAL BALILI	7
DRY GOODS	22
LONG TERM AREA	7
TABANGAOEN	20
PRIVATE AND GOVERNMENT	19
ENTREP BUILDING	36
<b>TOTAL</b>	<b>1,012</b>

## C. STALLS AND VENDORS

Stalls and vendors were also able to generate income.



Figure 12. Distribution of stalls and vendors

## D. TATAK BSU

TatakBSU.com was conceptualized in 2016. It was launched on January 30, 2018 during the University Charter Anniversary. To date, it is selling and promoting more than 50 kinds of BSU products and 30 local products.

It can be accessed via [www.TatakBSU.com](http://www.TatakBSU.com). This online store is part of the marketing strategy by the Business Affairs to promote and market BSU Food Products and Services. It will also cater to local entrepreneurs who need online presence to market their products as well.



Ceremonial Ribbon Cutting ceremony to launch [www.tatakBSU.com](http://www.tatakBSU.com) during the University Charter Anniversary Celebration on January 30, 2018.

## E. FACILITIES

The BSU Orchidarium that used to be at the area behind the Land Bank La Trinidad was transferred to the Strawberry Farm backfilled area giving more space to vendors and customers alike. It also diversified the line of products being sold at the Strawberry Farm.



In preparation for the re-accreditation of BSU Food Products with the Food and Drug Administration (FDA), the University Bakery is undergoing renovation for the improvement and efficiency of its products and services.



## F. IGP MANUAL WORKSHOP AND REVIEW

The Office of the Vice President for Business Affairs conducted an IGP Manual Workshop and Review last May 8-10 at the Riverview Water Park. Hon. Milagros A. Rimando and Hon. Marvin A. Chagyo participated as Resource Persons. There were a total of 21 participants composed of members from the Business Council, Land Reservation Office and the Office of Legal Affairs.



DETAILED 2018  
ANNUAL REPORT  
OF UBA



# *Offices under the President*

The following are the Offices under the Office of the University President other than the two campuses: Internal Audit Service (IAS), Office for Legal Affairs (OLA), Office of the University and Board Secretary (OUBS), Planning and Development Office (PDO), Office for Quality Assurance and Accreditation (OQAA), University Public Affairs Office (UPAO), International Relations Office (IRO), Open University (OU), Information Communication Technology (ICT) and the Gender and Development Office (GAD).

The University President is being assisted by these staff: a Private Secretary, an Executive Assistant IV, a Science Research Assistant and a job-order staff.

## A. INTERNAL AUDIT SERVICE

This Office has the mandate of Article 27, Chapter VI of the Benguet State University (BSU) Code. The Philippine Government Internal Audit Manual (PGIAM) was developed to guide Internal Auditors in performing their roles. It is divided into two parts: Part I – Guidelines outlines the basic concepts and principles of internal audit, and the policies and standards that will guide government agencies in organizing, managing, and conducting an effective internal audit. Part II – Practices contains user-friendly tools, techniques, and approaches in appraising the internal control systems against strategic objectives, and in conducting management and operations audits. The following were the summary of the output of the IAS for the year.

### 1. Conduct of audit on lot and space rentals

Table 24. Completed Internal Audits relative to the operational plan				
<i>IAR No.</i>	<i>Activity</i>	<i>Number of Findings</i>	<i>No. of Recommendations</i>	<i>Management Action</i>
2018-1 Feb 20, 2018	Audit on Processes and Operations of the Northern Philippines Root Crops Research and Training Center (NPRCRTC) for the year 2013-2017	Twelve	Sixteen	The University President approved the Internal Audit Report (IAR) No. 2018-01 with conditions
2018-02 April 16, 2018	Compliance and Process Audit on the Land and Building Space Rentals at Tabangaoen and Central Balili, La Trinidad, Benguet Audit Client: University Business Affairs	Nine	Sixteen	The University President issued Office Memo No. 70 s. 2018 dated April 20, 2018 addressed to the VP Administration and Finance and VP Business Affairs for evaluation and implementation.
2018-03 May 30, 2018	Compliance and Process Audit on the Supervised Farming Program at the Swamp Area for the School Year 2011-2017 Audit Client: Secondary Laboratory School (SLS)	Eight	Ten	The University President issued Office Memo No. 109 s. 2018 dated June 18, 2018 addressed to the Internal Auditor IV Violeta B. Bolinto and all the Vice Presidents, Re: Approval of Internal Audit Report
2018-04 May 30, 2018	Compliance and Process Audit on the Land and Building Space Rentals - Ambulant Vendors Audit Client: University Business Affairs	Sixteen	Twelve	The University President issued Office Memo No. 109 s. 2018 dated June 18, 2018 addressed to the Internal Auditor IV Violeta B. Bolinto and all the Vice Presidents, Re: Approval of Internal Audit Report
2018-05 May 30, 2018	Compliance and Process Audit on the Land and Building Space Rentals - Farmer Cooperator and Sariling Sikap Partners at the Swamp Area Audit Client: University Business Affairs	Twenty	Fifteen	The University President issued Office Memo No. 109 s. 2018 dated June 18, 2018 addressed to the Internal Auditor IV Violeta B. Bolinto and all the Vice Presidents, Re: Approval of Internal Audit Report except for some of the recommendations in the items No. 1, No. 4, No. 5

<i>IAR No.</i>	<i>Activity</i>	<i>Number of Findings</i>	<i>No. of Recommendations</i>	<i>Management Action</i>
2018-09 Aug 22, 2018	Compliance and Process Audit conducted at the BSU Agri-based Technology Business Incubator / Innovation Center Audit Client: BSU ATBI / IC	Eight	Nine	The University President issued Office Memo No. 159 s. 2018 dated August 29, 2018 addressed to the VPBA; Director, ATBI-IC; Director, PDO; and Director, LRO, Re: Internal Audit Service (IAS) recommendations as per IAR No. 2018-09 dtd. August 22, 2018 for implementation
2018-10 Sept 10, 2018	Compliance and Process Audit on BSU Land and Space Rentals – Strawberry Field Backfill Area Audit Client: University Business Affairs	Sixteen	Ten	The University President issued Office Memo No. 178 s. 2018 dated September 18, 2018 addressed to the VPBA, CAO Finance, and Chief Legal Affairs Office, Re: IAS recommendations as per IAR No. 2018-10 dtd. September 10, 2018 for implementation
2018-12 Nov 29, 2018	Compliance and Process Audit on Lot and Space Rental of the University – Parking Audit Clients: University Business Affairs, Legal Office, Security Services Office, Office for Vice President of Admin and Finance	Fourteen	Seventeen	The University President issued Office Memo No. 21 s. 2019 dated January 21, 2019 addressed to concerned offices for implementation
2018-13 Dec 27, 2018	Compliance Audit on Lot and Space Rental of the University- Strawberry Hotel Area-Long Term Stalls; Umbrella-Access Road; and Betag Satellite Market Audit Client: University Business Affairs	Nineteen	Thirteen	The University President issued Office Memo No. 21 s. 2019 dated January 21, 2019 addressed to concerned offices for implementation
2018-14 Dec 28, 2018	Compliance Audit on Lot and Space Rental of the University –Dry Goods Stalls; Ligaya’s Canteen; Farmacia Irene; Mr. Victor Singa’s Area; and the Stalls at the side of the Shell Station Audit Client: University Business Affairs	Twenty	Fifteen	The University President issued Office Memo No. 21 s. 2019 dated January 21, 2019 addressed to concerned offices for implementation

## 2. Follow-up on the implementation of the Internal Audit recommendations

Table 25. Activities to follow-up implementation of Internal Audit Recommendations

<i>IAR No.</i>	<i>Activity</i>	<i>No. of Recommendations</i>	<i>Status of Implementation</i>	<i>Management Action</i>
2018-08 July 30, 2018	Status of Implementation of the Internal Audit Recommendations	Fifty-four	Fully Implemented (FI) – 41 (76%) Partially Implemented (PI) – 1 (2%) Not Implemented (NI) – 12 (22%)	Received and noted by the Office of the University President on July 30, 2018.

### 3. Follow-up on the implementation of the COA recommendations

**Table 26. Activities to follow-up implementation of COA recommendations**

IAR No.	Activity	Status of Implementation	Number of COA Recommendations	Management Action
2018-06 June 5, 2018	Report on the Status of Implementation of the COA Result of Evaluation from January – June 2018 as of June 5, 2018	Fully Implemented - 28 <u>Partially Implemented - 56</u> 84	Eighty Four	Noted by the University President
2018-07 June 29, 2018	Report on the Agency Action Plan and Status of Implementation (AAPSI) of the COA's Prior Years' Audit Recommendations as of June 29, 2018		One Hundred Twenty Two	AAPSI submitted to COA as per letter signed by the University President dated June 29, 2018
2018-11 November 8, 2018	Report on the Agency Action Plan and Status of Implementation (AAPSI) of the COA's Prior Years' Audit Recommendations as of October 31, 2018		One Hundred Ten	AAPSI submitted to COA as per letter signed by the University President dated November 8, 2018

### 4. Other Accomplishments of the Internal Audit Service (IAS):

The IAS prepared and submitted Management Comment/s on (a) AOM Nos. 18-001 to 18-020 and (b) NS Nos. 18-002-01-(17) and 18-003-05-(17) which were received by COA on various dates from January 25, 2018 to December 18, 2018.

NS No. 18-002-01-(17) is fully settled under NSSDC No. 2018-013. NS No. 18-003-05-(17) is only partially settled under NSSDC No. 2018-014.

The office prepared communication for the President's approval and signature from January to December 2018 on the following:

a. COA Order of Execution (COE) Nos:

2017-12-070 dated 03/20/2018 - (6 notices)	2018-09-178 dated 09/27/2018 - (1 notice)
2017-12-069 dated 03/20/2018 - (6 notices)	2018-09-177 dated 09/27/2018 - (1 notice)
2017-12-071 dated 03/21/2018 - (1 notice)	2018-09-179 dated 09/27/2018 - (1 notice)
2018-01-005 dated 1/23/2018 - (88 notices)	2018-09-181 dated 09/27/2018 - (1 notice)
2017-12-068 dated 3/20/2018 - (1 notice)	2018-10-180, 191 dated 10/15/2018 - (1 notice)

b. Notice of Disallowance (ND)/Notice of Finality of Decision (NFD)/Notice of Suspension (NS)

ND No.18-005-07 (16) dated 05/21/2018 - (1 notice)	NFD 2018-09-027 dated 9/5/18-(2 notices)
ND 18-001-07 (16) dated 02/05/2018-(1 notice)	NS 18-004-05 (18)- dated 09/24/2018;-(3 notices)
ND 18-002-05 (17) dated 02/13/2018- (1 notice)	NS 18-004-05 (18)-A dated 09/28/2018-(1 notice)
ND 18-003-05 (17) dated 02/20/2018- (1 notice)	NS 18-006-01 (18) dated 11/15/18-(5 notices)
ND 18-003-07 (16) dated 03/05/2018-(1 notice)	NS 18-005-01-(17 & 18) dated 11/06/18- (1 notice)

c. Unnumbered Memo re: Settlement through installment payment of disallowances as per COA – LSS Prosecution and Litigation Office dated January 8, 2018 and June 14, 2018

d. Memorandum to College of Nursing faculty dated July 12, 2018 regarding COA – CAR decision No. 2018-065 dated July 6, 2018.

e. Office Memo No. 178 dated September 18, 2018 to VP-UBA, CAO-Finance, Chief-Legal re: Internal Audit Reports, recommendations for implementation  
Office Memo No. 0184 s. 2018 dated September 21, 2018 to VPAF, VPBA, Board Sec. V, CAO-ASD, CAO-FMO re: Conduct of audit on the space/stall rentals of the University



## B. UNIVERSITY PUBLIC AFFAIRS OFFICE

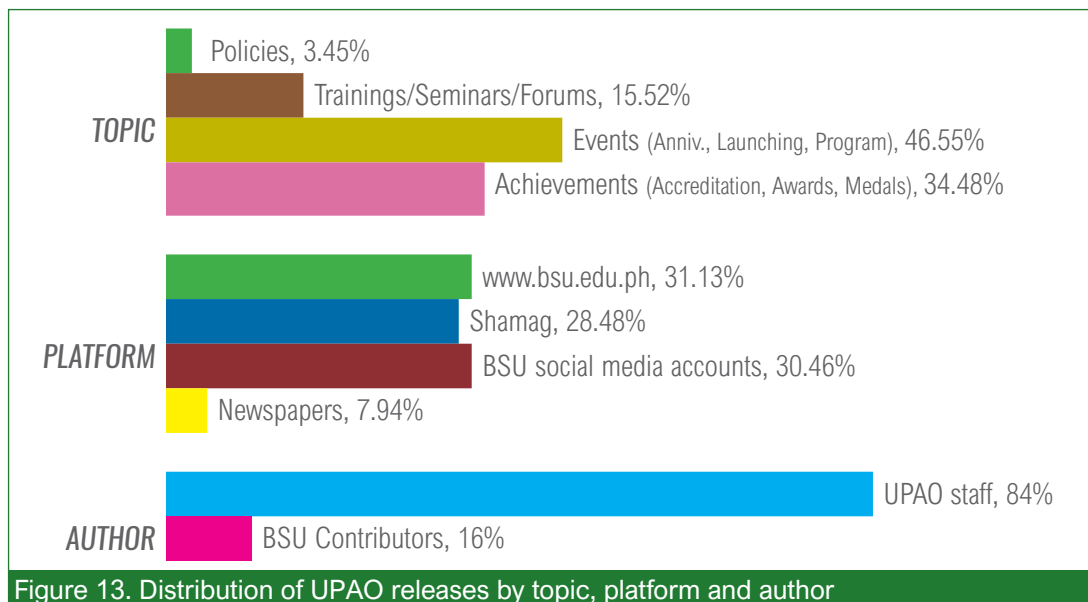
The office facilitated compliance to FOI (Freedom of Information) requirements in coordination with Atty. Matias C. Angiwan. The office maintained four social media accounts for BSU but is more active in Facebook. A survey was done in August among students to determine the kind of social media accounts they have. Facebook and Instagram were found to be the most common.

As designated Alumni Relations Officer, Ms. Michelle Gatab-Laruan coordinated with BSU Alumni Association Inc. during the Foundation Day Anniversary for the activities, started with the Alumni Tracking and revived iBSUak- profiling of alumni for information dissemination.

The Kapihan sa BSU was successfully conducted. The Office in coordination with the SSG, DevCom Department and OVPRE also facilitated the collection and delivery of donations to affected areas in Itogon, Benguet after the onslaught of Typhoon Ompong.

UPAO facilitated the visit of 2,674 people (Jan-Dec 2018) from State Universities and Colleges, Private Universities, LGUs and DepEd. The places of interest in BSU includes the Marketing Center, Organic Farm, Bakery, Food Processing, Museum, IHFSA, ATBI, Colleges, Extension, Admin and Finance Offices. Visitors heard about BSU from word of mouth (referral), Social Media, BSU Website and from Information Materials.

The events, activities and achievements documented by UPAO were disseminated in various forms and platforms as shown in Figure 13.



Regular release of Shamag and other information materials and videos while assisting University constituents in producing information materials and data retrieval.

UPAO also conducted an analysis of the queries received through the BSU Facebook page. In order to address the issues that was seen in the results of the analysis, a classroom to classroom campaign to students was done by the UPAO staff and messenger bots were activated to answer queries more accurately than the auto-reply feature of Facebook.

## C. INTERNATIONAL RELATIONS OFFICE

The International Relations Office (IRO) of Benguet State University is the lead office in facilitating and coordinating international partnerships for the university. The IRO aims to mainstream the university in the global arena, to benefit from mutual partnerships with known universities of the world, as well as with developing universities with excellent niche programs and projects.

**February 19-24, 2018**

BENCHMARKING VISIT FOR GLOBAL COMPETITIVENESS PHASE II ( THAILAND)

-Agreements were made on faculty exchange, student internship programs

**February 26-27, 2018**

VISIT OF STRI NAKHONSAWAN SCHOOL, THAILAND

-discussed possible linkage on student internship abroad program

**March 19-21, 2018**

HOSTED THE INTEGRATING TALENT DEVELOPMENT INTO CHALLENGE DRIVEN ECOSYSTEMS IN HIGHER EDUCATION (INNOTAL) FIRST KICK OFF MEETING AND WORKSHOP

-attended, organized and coordinated workshop

**April 4-5, 2018**

CONFERENCE ON UMAP AS A PLATFORM FOR ACADEMIC MOBILITY: CAMPUS- BASED INTERNATIONALIZATION

-followed-up on the delegates, possible networking activities were discussed; followed up at CHED, CBIE and Centennial College on student opportunities; and discussed with the VPAA and the deans on pursuing the prospects for mobility identified during the conference

**April 18-20, 2018**

VISITING VOLUNTEER MS. JULIE ANN LUCCA

-Orientation and deployment of US Peace Corp Volunteer to Benguet State University College of Home Economics and Technology

**April 25, 2018**

MEETING BETWEEN BSU, SOLIDAGRO AND ODISEE UNIVERSITY OF BELGIUM, CDPC

-MOU with the university and NGO's (SOLIDAGRO and CDPC).

**May 4, 2018**

FOLLOW-UP MEETING BETWEEN BSU, SOLIDAGRO AND ODISEE UNIVERSITY OF BELGIUM, CDPC

-MOU with the university and NGO's (SOLIDAGRO and CDPC).

**May 24, 2018**

RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY BENCHMARKING ON BSU INTERNATIONALIZATION PROGRAM

-benchmark discussions were focused on Internationalization Framework; obtaining membership in ASEAN University Network (AUN) and other Global or Regional Organizations; organization Structure and Mandate of the Office Promoting international activities through substantial budget allocation and fund sourcing; Policies on faculty and Student mobility Research and Extension in International Collaboration and Funding.

**June 14, 2018**

VISIT OF THE REPRESENTATIVES OF THE EMBASSY OF TIMOR-LESTE

-attendance to the 93rd Commencement Exercises and linkage to potential partners in Timor Leste.

**July 30, 2018**

INTERNATIONALIZATION MEETING

Consultation for building potential partnerships with US universities.

**August 3-31, 2018**

SEA TEACHER PROJECT Exposure of selected CTE students the SEA Teacher program and BSU CTE received 10 students from various universities in Indonesia.

**August 8, 2018**

QS RANKING SEMINAR -attended by two IRO focal persons from the CVM and IPA, seminar focused on how Philippine universities be ranked and competitive, taking QS as the evaluator

**August 31, 2018**

BSU STRATEGIC INTERNATIONALIZATION PLAN (PHASE I) -BSU internationalization plan vision was devised. -Sectoral Internationalization was identified by each sector

**October 1, 2018**

BSU STRATEGIC INTERNATIONALIZATION PLAN FINALIZATION  
Finalized IZN Plans of each sector and over all evaluation.

**October 9, 2018**

VISITING VOLUNTEER  
JULIE ANN LUCCA  
A send off program was organized by the CHET. IRO assisted in coordinating transportation of Ms. Lucca to Manila.

**October 25, 2018- November 3, 2018**

VISITING PROFESSOR (CEAT)  
Dr. Raimundas Rukuiza of Vytautas Magnus University lectured at the CEAT  
Agreements made: ASU will accommodate exchange student from BSU. Expenses shall be covered by the Erasmus Scholarship Program.

**October 9, 2018**

VISITING LECTURER (IHK) Dr. Ethan I. Bregman, Department of Health Care Services, Sacramento USA  
• Conducted a lecture on Sports Psychology: Mental Fitness Athletes and Coaches  
Follow-up activity: A seminar- workshop regarding sports psychology might be conducted around second quarter of 2019.

**December 5-6, 2018**

VISIT OF AGRIGIA, TAIWAN  
Agreements Made:  
• To draft a proposal to be submitted to MECO -TECO for the provision of training on organic farming for Filipino OFW's from Taiwan in partnership with BSU.

**November 26-28, 2018**

INTERNATIONAL PROJECT DEVELOPMENT WORKSHOP  
The participants were able to develop viable project proposals ready for international funding

**December 6-8, 2018**

VISIT OF CHUNG SHAN MEDICAL UNIVERSITY  
-agreements to discuss with their school administration for linkage on instruction, immersion, student exchange, practicum site and research and follow up on MOA signing when the BSU President will visit CSMU on February 2019 were made

**December 12-14, 2018**

VISIT OF UNTL AND EMBASSY OF TIMOR LESTE  
Agreements Made:  
• Joint academic mobility  
• Faculty Exchange  
• BSU to visit UNTL

**D. OFFICE OF THE UNIVERSITY AND BOARD SECRETARY**

Of late, Management has decided that the sectors will meet one month before the Administrative Council meeting to discuss items prior to elevating these to the Administrative Council. The objective of the established protocol is to empower the sectors as this process ushers broader participation in decision making. All agenda items which will be brought to the level of the Administrative Council will have to be indorsed by each respective sector.

In relation to the holding of meetings, the following protocols are practiced (a) Completed staff work on retrieval of agenda items and the release of ADCO Actions to clients (b) Complete staff work on logistics needed during meetings. Given this schedule, the number of Council meetings have been reduced.

The OUBS was able to document 118 actions from six Administrative Council Meetings, 71 actions from three Academic Council Meetings and 152 actions from four Board of Regents Meetings. Based on the request forms, there were 183 clients served. Their request were largely on Board Resolutions, excerpts and minutes of meetings.

**E. OFFICE FOR LEGAL AFFAIRS****A. LEGAL REPRESENTATION****1. Civil Cases**

- Most of the cases are set for pre-trial, others are on trial while the rest are awaiting Court's decision;
- In Civil Case No: 16- CV- 3225; BSU vs. Jackeline Duntogan, et. Al, for Unlawful Detainer with Damages, the RTC ruled in favor of BSU and affirmed the decision of the MTC in toto. The appeal by the respondents was dismissed for lack of merit.

**2. COA**

- Most of the disallowances have been appealed to the COA Commission Proper and are awaiting decision;

**3. Other Cases/Concerns**

- Notices/ Demands were sent to lessees who failed to settle their obligations;
- Negotiations are made on the renewal of lease of partner government agencies occupying an area within the BSU property;
- In re: Graceland 23 Inc., an amendment to the contract has been drafted and was forwarded to the BOR for their consideration

## B. DISPOSITION OF ASSIGNED ADMINISTRATIVE CASES

As a member of the Formal Investigation Committee, CODI, SDAB and by virtue of the nature and function of the office, several administrative cases/issues have been referred to the office involving various employees of the University. These includes three cases pending under the Formal Investigation Committee, four resolved/drafted cases with a decision, one case under CODI and one case under SDAB has been resolved.

## C. PROVISION OF LEGAL SERVICES

Legal documents, other than pleadings for cases, such as affidavits, contracts, agreements, undertakings, legal opinions, and the like have been drafted or reviewed by the office including contracts between BSU and various individuals and/or agencies (international and local); legal opinions to several issues of the different sectors of the University; and notices to various individuals with obligations to the University.

## F. INFORMATION AND COMMUNICATIONS TECHNOLOGY OFFICE

The ICT Development Fund was used to upgrade ICT laboratories for students. In 2018, LAN and Internet connection were installed in six laboratories and 148 computers were deployed to six colleges. The ICT continually supported the maintenance of University ICT laboratories.

IT support services of the office ensures the continuous operation, responsiveness and functionality of IT equipment, communication infrastructure, and communication systems of the university. From January to December 2018, there were 1,548 documented online request for technical support from employees. All (100%) the requests were addressed. The technical support service of the office was rated an average of 4.84 by employees/clients.

There are three on-going projects in the ICT. These are the Student Login System with data analytics for Computer Laboratories; New BSU website of the university to replace the current website and the HRIS development progress report.



The ICT Sattelite Office at the Administration Building increases the accessibility of ICT support and services

## G. GENDER AND DEVELOPMENT OFFICE

Based on the General Appropriation Act of 2018, Benguet State University has a general fund as presented:

<b>PERSONNEL SERVICES</b>	<b>384,298,000.00</b>
<b>MAINTENANCE AND OTHER OPERATING EXPENSES (MOOE)</b>	<b>98,381,000.00</b>
<b>CAPITAL OUTLAYS</b>	<b>79,763,000.00</b>
<b>TOTAL GENERAL FUND</b>	<b>562,442,000.00</b>

Five percent (5%) of the General Fund was allotted to GAD Plan and Budget which amounts to 28,122,100.00 For 2018, summary of accomplishment are as follows:

- 3 Infrastructure Projects (Construction of School Buildings) was attributed comprising the 88% of the total GAD Budget for 2018.
- 30 Client-focused Activities

- 21 Orientation/Fora for Students
- 5 Trainings of Peer facilitators
- 2 Sports Competition Participation
- 2 GAD-Responsive Trainings for Student Leaders
- 22 Organization-focused Activities
- 11 Capability Building related to GAD for Personnel
- 1 Training-Workshop on GAD-responsive Research Proposal Preparation
- 2 GFPS Members Capability Building
- 5 Training on Gender Mainstreaming in DRRM
- Acquisition of GAD-related books and IEC materials
- Distributions of IEC materials
- Maintenance of the Lactation Station Facility
- Establishment of Child-minding Facility
- Supported 2 Research Projects;
- 9 GFPS-TWG and Office meetings
- 11 Attendance-Participation to National/Regional GAD-related activities
- Maintenance of the Sex-Disaggregated Data in various offices
- Sustained the operations of GAD Office

**Highlights of the 2018 Programs, activities and Projects (PAPs):**

The GAD Office generated the 2018 BSU Annual GAD Accomplishment Report with an expenses of Php 30,326,200.77 with the following summary:

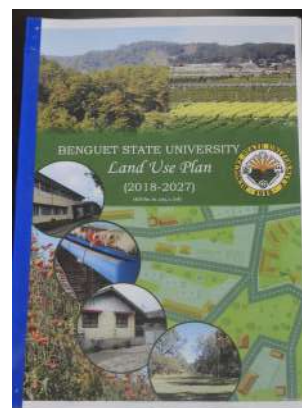
Table 27. Summary of GAD expenses			
	<i>ACTUAL (Php)</i>	<i>ATTRIBUTED (Php)</i>	<i>ACTUAL + ATTRIBUTED (Php)</i>
<i>A. CLIENT-FOCUSED ACTIVITIES</i>	526,926.80	158,967.26	685,894.06
<i>B. ORGANIZATION FOCUSED ACTIVITIES</i>	2,096,480.76	46,683.81	2,567,472.06
<i>C. MEETINGS</i>	4,500.00	46,683.81	51,183.81
<i>D. SALARY</i>	369,606.89	495,101.04	864,707.93
<i>E. SUPPLIES, MATERIALS, EQUIPMENTS</i>	491,144.64	80,908.00	572,052.64
<i>F. BUILDINGS PROJECTS</i>	0	25,584,890.27	25,584,890.27
	3,488,659.09	26,413,234.19	30,326,200.77

- Direct cost (Actual Amount disbursed by the University) = 3,488,659.09
- Indirect cost (Attributed amount with reports) = 26,413,234.19
- Accomplishment of the 2018 GAD Plan and Budget
- Proposal for the Establishment of School/University-Based Disaster Risk Reduction Management (DRRM) Committee;
- Proposed 2020-2025 GAD Agenda for the University; and
- Result of the BSU Gender Mainstreaming Climate Check: Training Needs Assessment for GAD Activities.

**H. PLANNING AND DEVELOPMENT OFFICE**

As per mandated functions of the Planning Development Office, accomplishments for 2018 are:

**Planning.** After three years of surveys, workshops, meetings and consultations, the BSU Land Use Plan was finally approved on April 13,2018 through BOR Res. No. 2764, s. 2018. It now serves as a tool and reference in the preparation of operational plans. A Land Use Committee was created by Office Memorandum No. 214, s. 2018 to oversee the implementation of the plan.



PDO continued providing assistance to different delivery units in their planning activities. Technical documents for seven infrastructure project were prepared.

**Monitoring & Evaluation.** Performance targets and accomplishments of the different sectors have been monitored to check on alignment with institutional mandate, vision, mission, goals and objectives; and to ensure readiness for evaluation by the respective heads or supervisors of delivery units. Observations were communicated immediately to the units concerned. In like manner, seven infrastructure projects and twelve infrastructure repairs have been monitored and observations have led to recommendations for corrective measures and the termination of one project.

**Physical Plant Development.** Seven infrastructure projects and twelve infrastructure repairs have been monitored and observations have led to recommendations for corrective measures and the termination of one project.

The construction of toilets by the DPWH and the subsequent turn-over to BSU were facilitated. These are at the Strawberry Farm and Centennial Park. In addition, the toilets at the covered court were rehabilitated also by DPWH.

**Management Information.** Databases on BSU landholdings, buildings and housing units were established, updated and made available to units needing them. To enrich the database on buildings, a study on space utilization and assessment of employee-built housing units have started.

Data required by DBM, NEDA, CHED and other agencies were consolidated and forwarded on time.

**Other functions.** Contributed to recommendations from the Housing Committee, PRAISE Committee, Budget Committee, Land Use Committee.

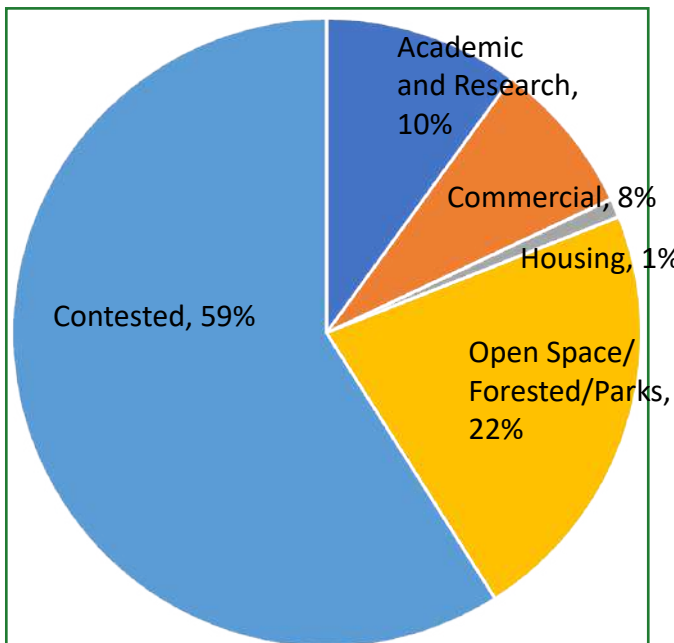


Figure 14. Existing Land Use

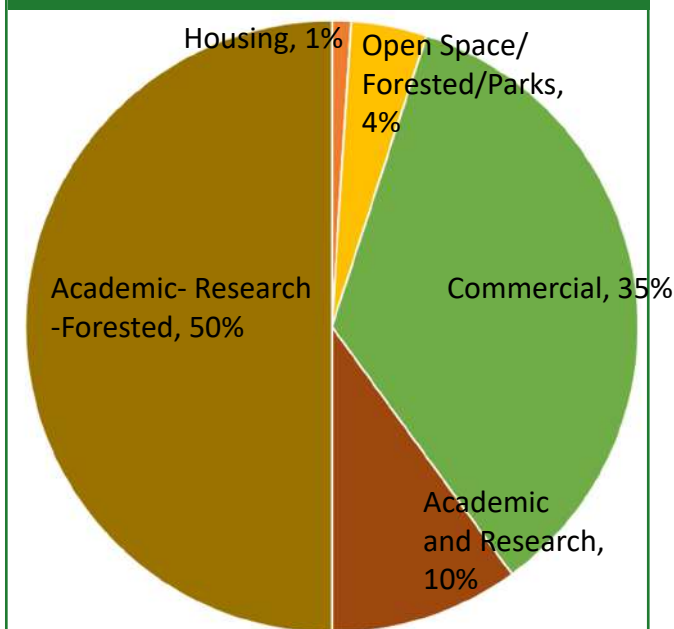


Figure 15. Proposed Land Use

Table 28. BSU land use distribution

USE	NUMBER	PERCENTAGE
Administration	12	3%
Academic	106	25%
Research and Extension	99	24%
Business Affairs	15	4%
Housing Units	187	45%
TOTAL	419	100%



DETAILED 2018  
GAD PLAN AND  
BUDGET



DETAILED 2018  
ANNUAL REPORT  
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