



NUEVA VIZCAYA STATE UNIVERSITY



2019 ANNUAL REPORT

a premiere university in a global community



Republic of the Philippines
NUEVA VIZCAYA STATE UNIVERSITY
Bayombong, Nueva Vizcaya

June 29, 2020

His Excellency RODRIGO ROA DUTERTE

President, Republic of the Philippines
Malacañang Palace, Manila

Through: **Hon. J. PROSPERO E. DE VERA III, DPA**
Chairperson, Commission on Higher Education

Dear **Mr. President**,

This is to submit the Nueva Vizcaya State University 2019 Annual Report.

The report covers the accomplishments of the University in terms of instruction, research, extension, training and production.

Thank you for your continued support to the University as we remain steadfast to live up to its vision of providing quality education and services attuned to global competitiveness.

Sincerely yours,

ANDRES Z. TAGUIAM, Ed. D.

University President



EXECUTIVE SUMMARY

One hundred three years of service and Nueva Vizcaya State University (NVSU), a SUC Level IV university, lives up to its mission to develop an empowered, productive and morally upright citizenry through high quality, innovative and relevant instruction, research, extension and entrepreneurship programs adhering to international standards up to date.

The University's journey in 2019 had been anchored and fully guided by the core values known as 'ACTS'. 'ACTS' stands for the four core principles which are: Academic Excellence, Cultural Diversity, Technological Advancement, and Social Responsibility.

Academic Excellence and Cultural Diversity involves delivery of high quality, innovative, and relevant instruction; acquisition of globally competitive skills; equitable access to education for students/clients of diverse ethnic identities and sustained commitment to nourish indigenous cultures. Originally, the university offers 70 programs both in the graduate and undergraduate programs. In 2019, the university added five more new curricular offerings in its academic program. Moreover, to ensure delivery of quality education; two academic policies were approved by the Board of Regents which are the Policies and Guidelines on Mandatory Random Drug Testing of the Students and the Outcomes Based Education Syllabi of the Nueva Vizcaya State University that includes the Grades and Grading System. Also, the university successfully passed the ISO 9001:2015 evaluation and is now awaiting the awarding of the ISO 9001:2015 Certificate by SOCOTEC. In addition to quality assurance, six programs were awarded Level II Accredited status, three programs were awarded Level I Accredited status and seven were awarded Candidate status by the AACUP accreditation. The University aims to continuously improve its faculty and professional profile; hence, 38 faculty members from both campuses are on study leave pursuing their respective advanced academic careers. On the other hand, the students also showcased their excellence in academics and exemplary talents in various fields where they bagged numerous awards in various competitions both in co- and extracurricular activities. Finally, 11 out of the 14 licensure examination results were higher than the national passing rates.

Technological Advancement involves continuing innovations for enhancing resource utilization and management towards improved harmonious living conditions. Thus, Research, Extension and Training (RET) have been continuously active in achieving such core value. NVSU is now one of the 17 SUC Technopreneurship Hubs in the Philippines under the DOST-PCIEERD HEIRIT Higher Education Institution Readiness for Innovation and Technopreneurship Program with its approved project entitled "Establishing the *Sabatan*: The Nueva Vizcaya State University Technopreneurs Hub". Also, NVSU is now also known as the Niche Center in the Region for R&D (NICER) for citrus commodity. The university was also successful in terms of resource generation as seven externally funded projects were approved for implementation for 2019 generating a total of Php 35,430,478.08 from DOST and DA-BAR. About 35 researches were successfully implemented and completed; while 37 externally or institutionally funded researches, projects and studies are on-going. In terms of awards and recognitions, several researchers were recognized for their research outputs and contributions in international, national, regional and local levels. Among which are best papers and outstanding presenters in various symposia. All in all, there were five international, five national, three regional and 12 local awards received in 2019. As to publication, 16 R & D outputs were published in various international journals and one in a national journal. Lastly, 32 outputs were patented and a total of 62 citations from 11 scholarly published research articles. In terms of linkages, 32 new memorandum of agreement or understanding were forged for various research, extension and training projects through the initiatives of different faculty researchers, extensionists and staff.

The Extension Program conducted trainings on various livelihood projects, agricultural production, homemaking and/or industrial technology, and other capability building activities. As a result of these trainings conducted, a total of 2,289 people benefited from the services and knowledge extended by the extension program and the different colleges of both campuses.

Social Responsibility involves initiatives and priorities in contributing global expertise to create positive impact on the University's service areas to attain the highest standards of organizational citizenship. There were 22 teaching staff who were promoted through institutional promotion. Likewise, 112 were reclassified to various academic ranks as a result of the implementation of NBC 461-7th cycle. There were also 78 teaching staff who were reappointed under temporary or permanent status, seven teaching and 12 non-teaching staff were given new appointments and one transferred to another government agency. In terms of budget utilization, the University generated a total revenue of Php 59,864,192.65 from service, business, grants and donations, and miscellaneous income with a slight increase of 3.47% from the total revenue generated in 2018. Furthermore, the Auxiliary Services was able to generate income collections amounting to Php 2,875,373.79 and Php 460,047.80 from Bayombong and Bambang campuses, respectively. The university has also four completed and 22 on-going infrastructure projects in both campuses.

Academic Excellence, Cultural Diversity, Technological Advancement, and Social Responsibility is what the university aimed to achieve for year 2019.

VISION

A premier university in a global community

MISSION

To develop an empowered, productive and morally upright citizenry through high quality, innovative, and relevant instruction, research, extension, and entrepreneurship programs adhering to international standards

QUALITY POLICY

The Nueva Vizcaya State University, a premier university in a global community, is committed to create a harmonious and improved standard of living through equitable access to quality education, research, extension, and training.

CORE VALUES

Academic Excellence: Delivery of high quality, innovative, and relevant instruction and acquisition of globally competitive skills

Cultural Diversity: Equitable access to education for students/clients of diverse ethnic identities and sustained commitment to nourish indigenous cultures

Technological Advancement: Continuing innovations for enhancing resource utilization and management towards improved harmonious living conditions

Social Responsibility: Initiatives and priorities in contributing global expertise to create positive impact on the University's service areas to attain the highest standards of organizational citizenship.



CURRICULAR OFFERINGS

Bayombong Campus

COLLEGE OF AGRICULTURE

UNDERGRADUATE PROGRAMS:

*Certificate of Agricultural Science

*Bachelor of Science in Agriculture

Majors: Animal Science; Crop Science (Agronomy/Horticulture); Crop Protection (Plant Pathology/Entomology); Soil Science, Agricultural Economics & Marketing, Agriculture Extension & Communication

Bachelor of Science in Fisheries

GRADUATE PROGRAMS:

Doctor of Philosophy by Research in Crop Science
Doctor of Philosophy by Research in Animal Science
Doctor of Philosophy in Crop Science
Doctor of Philosophy in Animal Science
Doctor of Philosophy in Rural Development
Master of Science by Research in Crop Science
Master of Science by Research in Animal Science
Master of Science in Crop Science
Master of Science in Animal Science
Master of Science in Rural Development

COLLEGE OF ARTS AND SCIENCES

UNDERGRADUATE PROGRAMS:

Bachelor of Science in Mathematics
Bachelor of Science in Biology
Bachelor of Science in Computer Science
Majors: Game Development; Robotics
Bachelor of Science in Information Technology
Majors: Web & Mobile App Development; Network Design & Management
Bachelor of Science in Information Systems
Majors: Business Analytics; Service Management

GRADUATE PROGRAMS

Doctor of Philosophy in Science Education
Major: Mathematics
Master of Science Teaching
Major: Mathematics
Master of Education in Science Education
Major: Mathematics

COLLEGE OF BUSINESS EDUCATION

UNDERGRADUATE PROGRAMS

Bachelor of Science in Agribusiness Management
Bachelor of Science in Business Administration
Majors: Financial Management; Marketing Management; Human Resource Management; Business Economics

GRADUATE PROGRAMS:

Doctor of Philosophy
Major: Organization, Development & Planning
Master of Management
Majors: Agribusiness Management, Business Management, Public Management

COLLEGE OF ENGINEERING

UNDERGRADUATE PROGRAMS:

Bachelor of Science in Geodetic Engineering
Bachelor of Science in Civil Engineering
Specializations: Construction Engineering & Management; Structural Engineering; Transportation Engineering; Water Resources Engineering
Bachelor of Science in Agricultural and Biosystems Engineering
Specializations: Soil & Water Management; Crop Processing; Farm Mechanization; Farm Structure & Environmental Sanitation

GRADUATE PROGRAMS

Master of Science in Agricultural Engineering

COLLEGE OF FORESTRY

UNDERGRADUATE PROGRAMS

Bachelor of Science in Agroforestry

Bachelor of Science in Ecotourism

Bachelor of Science in Forestry

Bachelor of Science in Environmental Science

Majors: Environmental Planning;
Environmental Management; Ecosystem
Management

GRADUATE PROGRAMS

Doctor of Philosophy by Research Work in Forestry

Master of Science in Forestry

Majors: Forest Resources Management;
Silviculture & Forest Influences; Social
Forestry & Forest Governance

Master of Science by Research Work in Forestry

COLLEGE OF HUMAN ECOLOGY

UNDERGRADUATE PROGRAMS

Bachelor of Science in Hospitality Management

Bachelor of Science in Tourism Management

Bachelor of Science in Home Technology

Major: Food and Nutrition

GRADUATE PROGRAM

Master of Science in Home Technology

Majors: Home Technology; Home
Technology Education

COLLEGE OF VETERINARY MEDICINE

UNDERGRADUATE PROGRAMS

*Bachelor in Animal Science

*Doctor of Veterinary Medicine

COLLEGE OF TEACHER EDUCATION

UNDERGRADUATE PROGRAMS:

Bachelor of Culture and Arts Education

Bachelor of Early Childhood Education

Bachelor of Elementary Education

Bachelor of Physical Education

Bachelor of Secondary Education

Majors: English; Filipino; Math; Social
Studies; Science

Bachelor of Technology and Livelihood Education

Major: Industrial Arts, Information &
Communication Technology, Home
Economics, Agri-Fishery Arts

Bachelor of Technical--Vocational Teacher

Education

Majors: Automotive Technology; Civil
Technology; Drafting Technology;
Electronics Technology; Welding
Technology; Food Service Management;
Furniture Fabrication Technology

GRADUATE PROGRAMS:

Doctor of Philosophy in Science Education

Majors: General Science; Biological
Science; Physical Science

Doctor of Philosophy in Multilingual Education

Doctor of Education

Major: Educational Management

Master of Education

Majors: Educational Administration;
Science Education; Language, Reading &
Numeracy

Master of Arts in Education

Majors: Music, Arts, Physical Education
and Health

Master of Arts in Teaching

Majors: English, Filipino

Bambang Campus

COLLEGE OF ARTS AND SCIENCES

UNDERGRADUATE PROGRAMS

Bachelor of Arts in English Language

Bachelor of Science in Biology

Field of Specialization: Animal Biology,
Plant Biology

Bachelor of Science in Cooperative Development

Bachelor of Science in Public Administration

GRADUATE PROGRAMS

Doctor of Philosophy

Major: Organization Development and
Planning

Master in Public Administration (MPA)

Major: Local Government Administration

COLLEGE OF ENGINEERING

UNDERGRADUATE PROGRAMS:

Bachelor of Science in Mechanical Engineering

Bachelor of Science in Electrical Engineering

Bachelor of Science in Electronics Engineering

Bachelor of Science in Computer Engineering

COLLEGE OF INDUSTRIAL TECHNOLOGY

UNDERGRADUATE PROGRAMS

Bachelor of Science in Industrial Technology

Field of Specialization: Automotive Technology, Electrical Technology, Mechanical Technology, Civil Technology, Computer Technology, Drafting Technology, Electronics Technology, Refrigeration & Air conditioning Technology Cosmetology, Welding & Fabrication Technology, Food Technology, Garments Technology

Bachelor of Science in Information Technology
 Bachelor of Science in Computer Science
 Bachelor of Science in Hospitality Management

COLLEGE OF TEACHER EDUCATION

UNDERGRADUATE PROGRAMS

Bachelor in Elementary Education
 Bachelor in Secondary Education
 Field of Specialization: English, Filipino, Mathematics, Science, Social Studies, Values Education

Bachelor of Physical Education
 Bachelor of Technology and Livelihood Education
 Field of Specialization: Home Economics, Industrial Arts, Information & Communications Technology

Bachelor of Technical-Vocational Teacher Education
 Field of Specialization: Automotive Technology, Civil and Construction Technology, Drafting Technology, Electronics Technology, Electrical Technology, Mechanical Technology, Welding and Fabrication Technology, Heating, Ventilation and Air-Conditioning Technology, Food and Service Management, Garments, Fashion and Design

GRADUATE PROGRAM

Doctor of Education
 Major: Educational Management
 Master of Arts in Education
 Field of Specialization: Educational Administration and Music, Arts, PE and Health
 Master of Arts in Teaching
 Majors: English, Mathematics, Industrial Technology, Filipino and Technology and Home Economics
 Master of Education in Science Education
 Field of Specialization: General Science



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BOARD OF REGENTS



ACADEMIC EXCELLENCE AND CULTURAL DIVERSITY

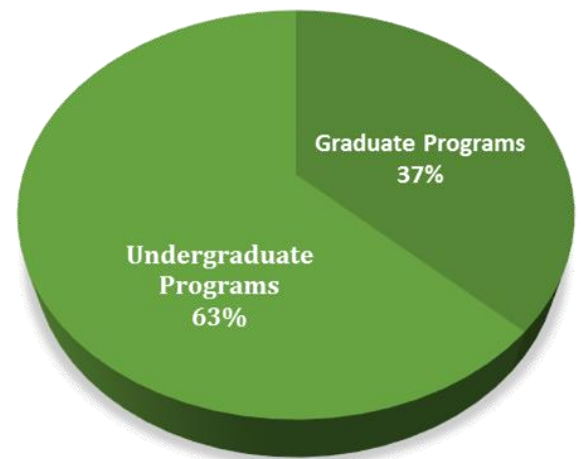


Curriculum Development

NVSU Bayombong campus currently offers 29 undergraduate programs and 18 graduate programs; while NVSU Bambang campus offers 17 undergraduate programs and 6 graduate programs. Over all, NVSU offers a total of 70 programs both in the undergraduate and graduate programs.

For 2019, five new curricular programs were offered these are Bachelor of Science in Information Systems and Bachelor of Science in Biology under the College of Arts and Sciences, while the other three are Bachelor of Culture and Arts Education, Bachelor of Early Childhood Education, and Bachelor of Physical Education under the College of Teacher Education.

Course Offerings



Policy Review and Development



The Office of the Vice President for Academic Affairs (VPAA) spearheads the Higher Education and Advanced Education Services of the University.

A series of policy review and development committee meetings were conducted. The policies approved by the Board of Regents are 1) Policies and Guidelines on Mandatory Random Drug Testing of the Students of the Nueva Vizcaya State University (Main proponent: Office of Student Affairs and Services) and 2) NVSU Outcomes Based Education Syllabi and Grades & Grading System (Main proponent: Office of the Instruction and Curriculum Development).



The graduate program academic policies were reviewed and finalized by the graduate program coordinators. Said policies shall be presented to the Board of Regents meeting on January 23, 2020.

POLICY	REMARKS
Policies and Guidelines on Mandatory Random Drug Testing of the Students	BOR Resolution No. 10-16-148, S. 2018
Outcomes Based Education Syllabi of the Nueva Vizcaya State University and Grades and Grading System	BOR Resolution No. 057, S. 2019
Graduate Programs Academic Policies and Guidelines	For BOR presentation



ISO 9001:2015

ISO certification indicates that a management system, manufacturing process, service, or documentation procedure has all the requirements for standardization and quality assurance.

The university was evaluated for ISO 9001:2015 Certification from November to December 2019 by the SOCOTEC. The evaluation involved on-site visit to the university and actual audit of the processes of the various offices to ensure international standards of quality assurance. Stages 1 and 2 external audit were conducted by personnel of the SOCOTEC. Preliminary and unofficial results reveal that NVSU is ISO 9001:2015 certifiable. The awarding of ISO 9001:2015 Certificate is expected by early 2020.



Quality Assurance

Accreditation recognizes that an institution maintains standards requisite for its graduates to gain admission to other reputable institutions of higher learning and to achieve credentials for professional practice.

Accrediting agencies, which are private educational associations of regional or national scope, develop evaluation criteria and conduct peer assessment. In the case of state universities and colleges, the Accrediting Agency of Chartered Colleges and Universities in the Philippines, Inc. (AACUP Inc.) is the reputable agency which conducts the accreditation.



Preliminary Survey Visit

The university was visited twice by the AACUP Inc. The first one was a preliminary survey visit on April 2-4, 2019 which subjected 7 graduate programs in the candidate status:

CANDIDATE STATUS (On-deck for Level I Accreditation)
Doctor of Education (Major in Educational Management)
Doctor of Philosophy in Science Education (Major in General Science)
Doctor of Philosophy in Multi-Lingual Education
Master of Education (Major in Educational Management)
Master of Arts in Teaching (Major in English and Filipino)
Master of Arts in Education (Major in Music, Arts, Physical Education, and Health)
Master in Management (Majors: Agribusiness Management, Public Management, Business Management)



Accredited Curricular Programs

The second visit involved the accreditation process of seven programs from Bayombong Campus and two programs from Bambang Campus. Result of the accreditation revealed that four programs were upgraded to Level II, three programs were Level I accredited and two were Level II re-accredited.

Bayombong Campus		
PROGRAMS	LEVEL (Accreditation Status)	DATE OF VALIDITY
BS in Hospitality Management (Majors: Hotel & Restaurant Management, Travel Management)	Level II Accredited	Dec 1, 2019 – Nov 30, 2020
MS in Teaching Mathematics	Level II Accredited	Dec 1, 2019 – Nov 30, 2020
MS in Forestry	Level II Accredited	Dec 1, 2019 – Nov 30, 2020
Doctor of Veterinary Medicine	Level II Accredited	Dec 1, 2019 – Nov 30, 2020
BS in Agro-forestry	Level I Accredited	Dec 1, 2019 – Nov 30, 2020
BS in Environmental Science	Level I Accredited	Dec 1, 2019 – Nov 30, 2020
Ph. D. in Science Education	Level I Accredited	Dec 1, 2019 – Nov 30, 2020
Bambang Campus		
BS in Hotel and Restaurant Management	Level II Re-accredited	Dec 1, 2019 – Nov 30, 2020
BS in Computer Science	Level II Re-accredited	Dec 1, 2019 – Nov 30, 2020





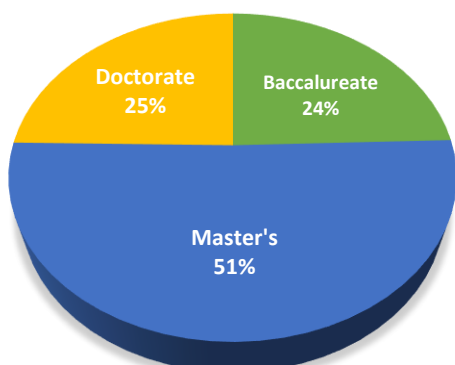
Faculty Profile

To carry out academic excellence, the university does not only focus on the development of the students, but it also nurtures the knowledge of its academic personnel.

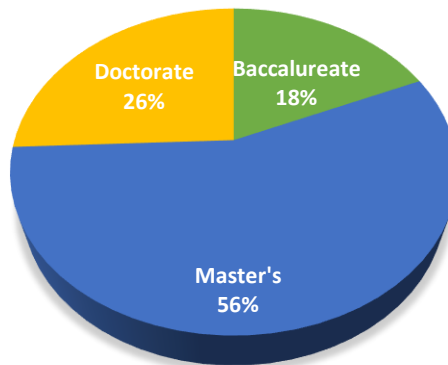
As a result of the manpower development program, the university's faculty profile was strengthened. Out of the 370 teaching personnel, 68 (18%) are baccalaureate degree holders, 207 (56%) are master's degree holders and 95 (26 %) are doctoral degree holders. The figure presented below showed an improvement of the faculty profile in 2019 as compared to the profile in 2018.

In terms of academic ranks, among the faculty members, 177 (48%) are instructors, 81 (22%) are assistant professors, 22% are associate professors, and 29 (8%) are professors.

Comparative Distribution of Faculty Members According to Educational Qualification

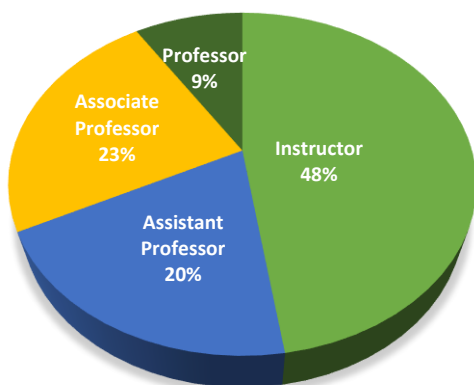


2018
376 Faculty Members

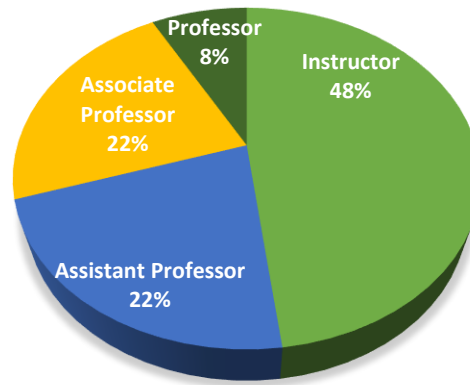


2019
370 Faculty Members

Comparative Distribution of Faculty Members According to Rank



2018
376 Faculty Members



2019
370 Faculty Members



Faculty Development Program

The attendance of faculty to various trainings, seminars, fora and conventions is a means to enhance their capabilities and grasp new trends and technologies in their respective fields of specialization. As such, this further enriched their knowledge and skills thus strengthening the delivery of future service to clientele. The data below shows the attendance of faculty to various capability enhancement and retooling activities.

	Institutional	Local	Regional	National	International
Teaching	44	9	21	22	15

To further improve the faculty academic and professional profile, 38 faculty members of both campuses are on study leave to pursue their respective advanced academic degrees. The advancement of the academic and professional status of these faculty members will not only be beneficial to them but also to the students and the university as a whole.

The list below shows various national and international funding agencies, institutions, and universities with number of faculty grantees.

SCHOLARSHIP GRANT	NUMBER OF GRANTEES
DOST-SEI	2
DOST	2
FSDP	12
DOST-ERDT	1
Global Korea Scholarship Program	1
DOST-SEI Strand 2	2
CHED K-12	15
Special Financial Support Program Obihiro University	1
Scholarship Program for ASEAN (Phase II)	1



The following table shows the list of faculty members of both campuses who are on study leave:

Name of Grantee	Scholarship Grant	Date Granted	Degree/Course/School	Expected Date to Return
NEWLY GRANTED SCHOLARS				
Jennifer T. Albano	FSDP	January 2020	MS Veterinary Medicine major in Veterinary Microbiology - UPLB	January 2022
Ruchi Briam James S. Lagitnay	DOST-SEI Foreign Scholarship Program	August 2019	MS Chemistry - National Chung Hsing University, Taichung, Taiwan	August 2021
Lorena P. Laguardia	DOST	August 2019	Ph.D. Forestry - UPLB	August 2022
Gina F. Movilla	FSDP	August 2019	MS in Civil Engineering - University of Cordilleras	August 2021
Rolly T. Hawete	FSDP	August 2019	Master of Engineering in Geodetic Engineering - University of St. Louis Tuguegarao	August 2021
Xyrene B. Reyes	FSDP	July 2019	Doctor in Hospitality Management - Philippine Women's University	July 2022
Michael Francis C. Garma	FSDP	June 2019	Ph.D. Educational Management - Philippine Normal University	June 2022
Shirley C. Veniegas	FSDP	January 2020	Ph.D. Language Education-Filipino - Benguet State University	January 2021
Femilyn A. Belarde	FSDP	January 2020	Ph.D. Language Education-English - Benguet State University	January 2021
Reymund C. Derilo	DOST-SEI Foreign Scholarship Program	August 2019	Ph.D. Biochemistry - National Chung Hsing University, Taichung, Taiwan	August 2022
Erwin P. Gagate	FSDP	January 2019	Ph.D. Language Education-Filipino - Benguet State University	December 2021
ON-GOING SCHOLARS				
Jennifer T. Ferrer	FSDP Full Time	January 2019	Ed.D. in Industrial Education Management - Technological University of the Philippines	January 2022
Mary Hazel Joy C. Ugot	DOST-ERDT	August 2018	Ph.D. Agricultural Engineering - UPLB	August 2021
Joseph E. Valdez	2018 Global Korea Scholarship Program for Graduate Degrees	September 2018	MS Chemistry - Seoul National University	September 2021
Judith O. Guyod	DOST-SEI Strand 2	January 2018	Ph.D. Chemistry - De La Salle University	January 2021
Jay Roy D. Velasco	DOST-SEI Strand 2	January 2018	Ph.D. in Science Education-Mathematics - Mary's University	January 2021
Joan Hazel V. Tiongson	FSDP	October 2017	Doctor in Information Technology - St. Paul University	October 2020
Rosemarie A. Cadiente	CHED K-12	September 2017	Ph.D. Science Education – Physics - De La Salle University	September 2020
Glaizalyn B. Lictawa	DOST-ERDT	September 2017	Ph. D. Agricultural Engineering - CLSU	September 2020
Ma.Teresa A. Fulgencio	CHED K-12	August 2017	Ph.D. in Human Nutrition – UPLB	August 2020
Ma. Lourdes G. Doctor	FSDP	August 2017	Ph.D. Educational Management - St. Louis University	August 2020



Danilo C. Macaraeg	CHED K-12	August 2017	Ph.D. Agricultural Science-Crop Science - Isabela State University	August 2020
Carmelo Alejo D. Bisquera	CHED K-12	August 2017	Doctor of Information Technology - St. Paul University	August 2020
Revelyn L. Marcos	CHED K-12	August 2017	Doctor in Business Administration - St. Louis University	August 2020
Leofred C. Velasco	CHED K-12	August 2017 August 2019 to December 2019 Extension of Study Leave	MS Aquaculture - Central Luzon State University	August 2019 January 2020
Gydabelle M. Olaya	CHED K-12	September 2017	Ph.D. in Development Studies - De La Salle University	September 2020
Fidel G. Patricio, Jr.	CHED K-12	July 2017	Doctor in Information Technology - St. Paul University	July 2020
Michael John R. Robles	CHED K-12	August 2017	Doctor in Information Technology - St. Paul University	August 2020
Rebecca G. Wangdale	CHED K-12	August 2017	Ph.D. Environmental Science - UPLB	August 2020
Vernadyn A. Morillo	Special Financial Support Program for International Students of the Doctoral Program of Obihiro University of Agriculture and Veterinary Medicine	April 1, 2017 April 2020 to September 2020 Extension of Study Leave	Ph.D. Animal and Food Hygiene - Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan	March 2020 October 2020
Agustin B. Lunag	DOST	January 2017	Ph.D. Crop Science - CLSU	January 2020
William D. Magday, Jr.	Ph.D. Scholarship Program for ASEAN (Phase II)	July 2016 to July 2019 July 2019 to June 2020 Extension of Study Leave	Ph.D. English Language Studies - Suranaree University of Technology Thailand	July 2019 July 2020
Jacqueline V. Iglesias	CHED K-12 Scholarship	September 2016 September 2019 to December 2019 Extension of Study Leave	Ph.D. in Educational Psychology - De La Salle University Manila	August 2019 January 2020
Edilberto H. Salinas	FSDP	August 2017	Doctor in Public Administration - Isabela State University	August 2020
Fritzie A. Sison	CHED K-12	August 2016 August 2019 to December 2019 Extension of Study Leave	Ph.D. in Literature - University of Santo Tomas	August 2019 December 2020
Astrid P. Yago	CHED K-12	June 2016 August 2019 Extension of Study Leave	Ph.D. Filipino - University of the Philippines Diliman	June 2019 July 2020
Linette T. Wakit	CHED K-12	August 2017	Ph.D. English - University of Santo Tomas	August 2020
Aurelio F. Polonio	CHED K-12	August 2017	Ph.D. English - University of Santo Tomas	August 2020



The table lists faculty scholars who graduated for school year 2019-2020 from various campuses:

Name of Grantee	Scholarship Grant	Degree/Course/School
Ronnie F. Castaneda	Thesis Assistance	Master of Arts in Teaching-English - NVSU Bayombong
Warren M. Acosta	FSDP-DeLoading	MAT Instructional Technology - NVSU Bambang
Ma. Eden R. Salaguste	FSDP-DeLoading	MST Mathematics - NVSU Bayombong
June C. Quipo	FSDP-OT Full Time	MS Agricultural Engineering - CLSU
Teresita B. Barangay	CHED K-12	Doctor in Bus. Mgmt-Hospitality Mgmt. - St. Paul University, Tuguegarao
Lourdes T. Capua	CHED K-12	Doctor in Bus. Mgmt-Hospitality Mgmt. - St. Paul University, Tuguegarao
Mary Jane B. Cortez	CHED K-12	MS Biology - CLSU
Romeo P. Evangelita	CHED K-12	Doctor in Information Technology - St. Paul University, Tuguegarao
Jerwin F. Memita	Thesis Assistance	Master of Arts in Teaching-Social Studies - St. Mary's University
Alma Bella G. Cablinan	Dissertation Assistance	Ph.D in Bilingual Education - NVSU Bayombong
Jeronimo L. De Jesus	Thesis Assistance	Master of Arts in Industrial Education - Isabela State University
Venus B. Tajon	Thesis Assistance	Master of Arts in Teaching-English – NVSU Bayombong
Mercy B. Balinon	Thesis Assistance	Master of Arts in Teaching-Filipino - Ifugao State University
Daren S. Erana	Thesis Assistance	Master of Management major Agribusiness Management – NVSU Bayombong
Jane B. Bacani	CHED K-12	Ph.D. Rural Development - Benguet State University
Michael D. Aliaga	FSDP-OT Full Time	Master in Information Technology - St. Mary's University
Michelle A. Abalos	FSDP-DeLoading	Master of Arts in Teaching - NVSU Bambang
Hana Gay D. Mejia	FSDP-DeLoading	Master of Arts in Teaching - NVSU Bambang
Fernando C. Del Mundo	FSDP-DeLoading	Doctor in Public Administration - Isabela State University
Cesar E. Manaois, Jr.	FSDP-DeLoading	MAEd. In Guidance & Counseling - St. Mary's University
Jezza-Lyn L. Bautista	Thesis Assistance	MPA - NVSU Bambang
Rodney T. Cajimat	CHED K-12	Ph.D. Science Education-Biology - De La Salle University
Larry P. Remolazo	CHED K-12	MS Engineering-Mechanical Engineering - St. Louis University
Ryan Victor D. Bautista	Thesis Assistance	Master in Information Technology major in Software Development - St. Mary's University
Lionel Luis F. Dumelod	Thesis Assistance	Master in Business Administration - St. Mary's University
Joan Nebrida	Thesis Assistance	MS in Hotel & Restaurant Management - Philippine Women's University



Students' Achievements

Awards in Co-curricular Activities

The students of the University also endeavor to attain excellence not only in their respective degrees but also in co- and extra-curricular activities. Below shows data on the awards and recognitions bagged by the students from various competitions in local, regional and national levels.

2019 Regional Civil Engineering Students Summit

February 7-8, 2019 / Cagayan State University, Tuguegarao, Cagayan

1st Place Structure Building Competition

Jeanne Batac
Mary Glendale Castro
Hazlyn Pablo
Wilbert Uhuad
Dave Alexander Quintana
Joemie Limon
Nap Gerald Tolentino
Lea Jallorina
Allison Ko
Antonio Parong IV

2nd Place Bridge Building Competition

Bernard Calansi
Tricia Kae Obra
RJ Leal
Shenie May Macaraeg
Jezreel Kindahan

3rd Place Pacekatan Quiz Show

Maria Cecilda Kimpalong
Moises Gagarin

Nueva Vizcaya-Bureau of Fire Protection (NV-BFP) Fire Olympics

March 4, 2019 / Bayombong, Nueva Vizcaya

Miss NV-BFP Fire Olympics

Camille Jade Polo

Save Me Movement 14th Kampo Kalisakan *cum* Kabalaka Disaster Resiliency Summit

September 20-23, 2019 / Villa Consortia, Malag-it, Pontevedra, Capiz

2nd Place, Photo Caption Writing

Joy Latawan



North Luzon Student Conference – PaGELingan Quiz Contest

March 23, 2019 / St. Louis University, Baguio City

3rd Place, Quiz Contest

**Christine Erica Tan
Shyra Jane Agliam
Mary Carolyn Luis**

6th Ilocos Sur Invitational Rodeo Tournament

February 8-9, 2019 / Vigan City, Ilocos Sur

2nd Place, Steer Wrestling on Horseback

2nd Place, Steer Wrestling on Foot

3rd Place, Bull Riding (Men)

3rd Place, Bull Whipping

3rd Place, Calf Wrestling

**Clint Buelta
Julie Ann Paguyo
Marie Bacayan
Joie De Vieve Velasco**

Tuklas Talino YMCA National Congress for College Students

November 20-24, 2019 / Teacher's Camp, Baguio City

6th Place, Tuklas Talino

3rd Place, Y'ers Got Talent

10th Place, Spoken Poetry

3rd Place, Photography Contest

**Xeinlei Buyuccan
Robert Lucas
Clarie Ann Vallejos**

69th Philippine Society of Agricultural Engineers Annual National Convention

April 21-27, 2019 / Bacolod City, Negros Occidental

2nd Place, Geographic Information System Challenge

2nd Place, Electrical Writing Contest

2nd Place, Agricultural & Biosystems

Engineering Quiz Bee

1st Runner-Up, Miss ABEllympics

2nd Runner-Up, Mr. ABEllympics

**Rovelyn Fabian
Jansel Pugong
Rolan Carlo Rivera
Imee Quiligue
Shez Gilleine Castillano
Karen Grace Ligwatan
Ronelo Abella, Jr.**

4th Skills Olympics

September 17, 2019 / NVSU Bambang Gymnaesium

1st Place, Pasta Cooking Contest

2nd Place, Bar Flairtewnding

2nd Place, Skirting and Napkin Folding

2nd Place, Tour Packaging

2nd Place, Fruits and Vegetable Carving

**Elixander Lee
Cinderella Ermitanio
Ryan Tominez
Arvin Prepose
Melanie Padre
Jonard Gasmin
Ronnell Nghayon**



Student Organizations

The Student Affairs and Services accredited 55 student organizations for Bayombong Campus and 34 student organizations for Bambang Campus for AY 2019-2020, supporting their activities in extension services and participation in various forums.

Bayombong Campus

Mother Organizations

College of Agriculture Student Council
 College of Arts & Sciences Student Council
 College of Business & Economics Student Council
 College of Engineering Student Council
 College of Forestry Student Council
 College of Human Ecology Student Council
 College of Teacher Education Student Council
 College of Veterinary Medicine Student Council

College-Based Organizations

Agribusiness Students & Alumni Association
 Association of Civil Engineering Students
 Association of Geodetic Engineering Students
 Association of Social Science Enthusiasts Teachers and Students
 Computer Science Society
 Confederation of Future Secondary Educators
 Eastern Asia Society for Transportation Studies-Transportation Science Society of the Philippines
 Entrepreneurial Action Us (ENACTUS) NVSU
 Federation of Future Filipino Foresters
 Future Elementary Educators Assembly
 Future Information Technologist Society
 Future Science Educators Organization
 Holistic Organization of Physical Education Students
 Junior Financial Executives
 Junior Fisheries Technologists
 Kapisanan Ng Mga Mag-Aaral Sa Agri-Tech
 Mathematics Club
 Organization of Hospitality Management Students
 Society of Future Agricultural Engineers
 Philippine Institute of Civil Engineering
 Philippine Junior Marketing Association
 Philippine Society of Agricultural Biosystems Engineer Pre-Professional Group

Non-College Based Organizations

Association of Reserved Military Students
 Head, Heart, Hands and Health (4H) Club
 Ifugao Student Organization
 Kalanguya Student Organization
 Kapatiran Ng Mga Huwarang Mag-Aaral
 NVSU Emergency Response Team
 NVSU Dormitory Organization
 Red Cross Youth



River Conservation Club
Rodeo Club

Religious Organizations

Jesus Reigns Ministry
Chi Alpha Student Ministry
Every Nation Campus
Resources Employment & Community Horizons (REACH) Ministry
Union Espiritista Christiana De Filipinas Incorporada

Fraternities and Sororities

Alpha Phi Omega
Beta Sigma Fraternity/Sigma Beta Sorority
Gamma Epsilon International
Tau Gamma Phi/Tau Gamma Sigma
United Ilocandia Fraternity-Sorority Civic Action Group
Zeta Beta Rho Honor Fraternity/Mussaenda Honor Sorority

Bambang Campus

Mother Organizations

College of Arts & Sciences Student Council
College of Industrial Technology Student Council
College of Engineering Student Council
College of Teacher Education Student Council

College-Based Organizations

Future Mathematics Mentors Society
Future Elementary Mentors Society
Future Science Mentors Society
Future English Olympian Mentors Alliance
United Future Mentors of Physical Education
Association of Social Science Enthusiast – Teachers and Students
Samahan ng mga Tagapagtaguyod ng Wikang Filipino
Future Industrial & technical Educators Society
Public Administration Student Council
AB Parthenian
Biologics
Bachelor of Science in Cooperative Development Society
Institute of Computed Engineers of the Philippines Student Edition
Jr. Philippines of Mechanical Engineering
Jr. Institute of Electronics Engineers of the Philippines
Electrical Engineers of the Philippines Nueva Vizcaya State University Council of Students Chapter
Societes de Hotelier Est Restaurateur

Non-College Based Organizations

Student Residents' Alliance
The University Gazette
Mantataro
Makabagong Iskolar ng Bayan TES
KORO NVSU

Ethnic Organizations

Ifugao Student Association
Kankana-ey Ibaloi Student Association
Kalanguya Student Organization



Bungkalot Student Organization

Religious Organizations

Christian Brotherhood International

Campus Youth Mission

Fraternities and Sororities

Alpha Phi Omega

Tau Gamma Phi



Enrollment Summary

Overall Percentage and Population

Enrolment in Bayombong Campus during the 1st Semester SY 2019-2020 increased by 11.28% compared to the enrolment of 1st Semester SY 2018-2019. For Bambang Campus, there was a decrease of 15% in the number of enrollees as compared to 1st Semester SY 2018-2019. Merging the total number of enrollees of both campuses, there was a slight increase of 0.32% in the enrolment for year 2019.

1st SEM. SY 2018 – 2019

CAMPUS	TOTAL NO OF ENROLLEES	
	Tertiary	Graduate
BAYOMBONG	5,450	721
BAMBANG	3,867	411
GRAND TOTAL	9,317	1,132

1st SEM. SY 2019 – 2020

CAMPUS	TOTAL NO OF ENROLLEES	
	Tertiary	Graduate
BAYOMBONG	6,143	724
BAMBANG	3,289	326
GRAND TOTAL	9,432	1,050

FIRST SEMESTER
S.Y. 2018 -2019

10, 449
Enrollees

0.32 %
INCREASE

FIRST SEMESTER
S.Y. 2019 -2020

10, 482
Enrollees



Graduation Profile

In Bayombong Campus, students who were conferred their respective degrees increased by 7% compared to the data of graduates in 2018. The increase was manifested in all levels, i.e., the graduate, baccalaureate and the diploma, certificate and associate programs. In Bambang Campus there was also an increase by 4% in the number of graduates for graduate and baccalaureate as compared to year 2018. However, the number of graduates for diploma, certificate and associate programs decreased. To sum, both campuses were able to produce 2,084 graduates for 2019 which is more than the graduates in 2018 by about 11%.

	BAYOMBONG		BAMBANG	
	2018	2019	2018	2019
GRADUATE	31	36	11	17
BACCALAUREATE	948	1225	747	798
DIPLOMA, CERTIFICATE, ASSOCIATE	111	-	31	8
TOTAL	1090	1261	789	823



Board Examination Results

Bayombong and Bambang Campuses

NVSU was able to produce 701 licensed professionals in 2019 in the different fields of specialization. This year, 11 out of 14 licensure examination results manifested higher passing rates and/or have surpassed the national passing rates. These are the licensure examinations for Agriculturists, Fisheries Technologists, Agricultural and Biosystems Engineers, Geodetic Engineers, Foresters, Teachers in the Elementary and Secondary Level in both campuses, Electrical Engineers and Mechanical Engineers. The result manifests continuing improvement and enhancement of academic services of the university.

The following are the results of the Board Exam held for year 2019:

Licensure Examination for Agriculturists

	Examinees	Passers
First – Takers	146	63
Repeaters	10	3
Total	156	66
National Passing Rate 41.05%	NVSU Passing Rate 42.31%	

Licensure Examination for Fisheries Technologists

	Examinees	Passers
First – Takers	7	5
Repeaters	2	1
Total	9	6
National Passing Rate 34.79%	NVSU Passing Rate 66.67%	

Licensure Examination for Agricultural And Biosystems Engineer

	Examinees	Passers
First – Takers	7	5
Repeaters	2	1
Total	9	6
National Passing Rate 37.70%	NVSU Passing Rate 45.31%	

Licensure Examination for Civil Engineers

	Examinees	Passers
First – Takers	60	32
Repeaters	40	9
Total	100	41
National Passing Rate 41.36%	NVSU Passing Rate 41.00%	

Licensure Examination for Geodetic Engineers

	Examinees	Passers
First – Takers	12	9
Repeaters	4	2
Total	16	11
National Passing Rate 54.85%	NVSU Passing Rate 68.75%	

Licensure Examination for Foresters

	Examinees	Passers
First – Takers	88	69
Repeaters	13	8
Total	101	77
National Passing Rate 55.95%	NVSU Passing Rate 76.24%	



Licensure Examination for Veterinarians

	Examinees	Passers
First – Takers	6	5
Repeaters	16	3
Total	22	8
National Passing Rate 48.86%	NVSU Passing Rate 36.36%	

Licensure Examination for Electrical Engineers

	Examinees	Passers
First – Takers	15	14
Repeaters	4	1
Total	19	15
National Passing Rate 63.83%	NVSU Passing Rate 78.95%	

Licensure Examination for Electronics and Communications Engineer

	Examinees	Passers
First – Takers	13	5
Repeaters	12	6
Total	25	11
National Passing Rate 49.25%	NVSU Passing Rate 44.00%	

Licensure Examination for Mechanical Engineers

	Examinees	Passers
First – Takers	23	19
Repeaters	8	8
Total	31	11
National Passing Rate 50.17%	NVSU Passing Rate 77.42%	

Licensure Examination for Teachers (Elementary Education)

Bayombong Campus	Examinees	Passers
First – Takers	80	65
Repeaters	51	25
Total	131	90
National Passing Rate 29.57%	NVSU Passing Rate 68.70%	

Licensure Examination for Teachers (Secondary Education)

Bayombong Campus	Examinees	Passers
First – Takers	222	135
Repeaters	156	35
Total	378	170
National Passing Rate 34.38%	NVSU Passing Rate 44.97%	

Licensure Examination for Teachers (Elementary Education)

Bambang Campus	Examinees	Passers
First – Takers	45	34
Repeaters	29	14
Total	74	48
National Passing Rate 29.57%	NVSU Passing Rate 40.34%	

Licensure Examination for Teachers (Secondary Education)

Bambang Campus	Examinees	Passers
First – Takers	153	92
Repeaters	133	13
Total	286	105
National Passing Rate 34.38%	NVSU Passing Rate 36.71%	



National Competency Assessments

Results of NC II assessment by Technical Education and Skills Development Authority (TESDA) are reflected in the table below. The efforts and dedication of the teachers in conducting in-house review classes and by integrating the required skills in the laboratory activities contributed significantly to the high passing rates of takers. This outstanding accomplishment of the students in the three areas of competency is a reflection of the relevance of the curricula in honing their knowledge and skills.

Type of Examination	No. of First Takers	No. of Passers
NC2 Bread and Pastry	108	98 / 90.74%
NC2 Cookery	79	73 / 92.41%
NC2 Front Office Services	85	71 / 83.53%
NC2 Food and Beverage Services	45	43 / 95.56%



Scholarship Grants

Republic Act 10931 mandates the Universal Access to Quality Tertiary Education approved and implemented in Academic Year 2018-2019.

NVSU is one of the 112 State Universities and Colleges (SUCs) implementing the Free Higher Education (FHE) program which grants the following benefits: Free Tuition and Miscellaneous Fees plus other school fees.

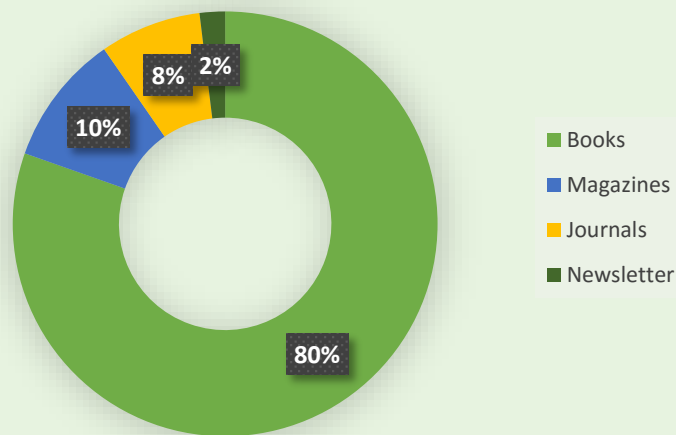
There are also other scholarship grants enjoyed by the 830 students in Bayombong Campus and 1,171 in Bambang Campus during of the 1st Semester for School Year 2019-2020. It is however observed that there was a decrease on the number of grantees during the 1st semester of SY 2019-2020 compared to the 1st and 2nd Semesters of 2018-2019 as shown in the graph. The different scholarship and financial assistance grants are presented in the table below.



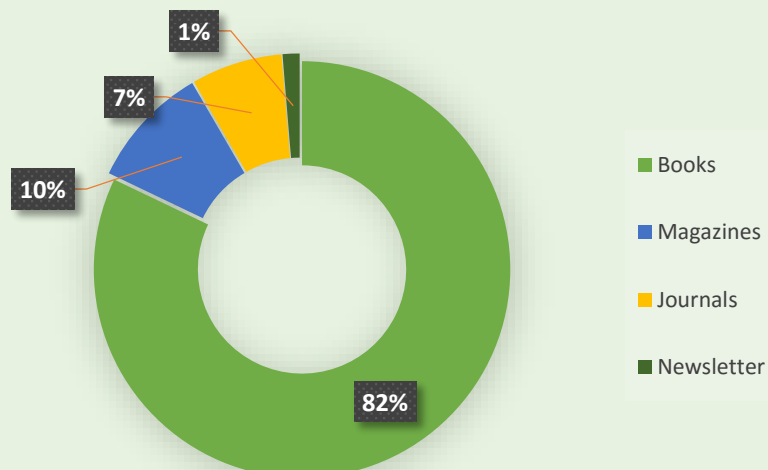
Library Services

The university library provides a modern, efficient, and welcoming library service to students, faculty and staff. It remains to be the center of academic activities which help users to navigate the information that abounds in today's global and technologically advanced society. Hence, it continually improves its acquisitions. It is interesting to note that more than 50% of the acquisitions are on books and the rest are magazines, journals and flyers. Below shows the data of acquisitions for the year in review.

Total No. of Library Materials as of 2019 Bayombong Campus



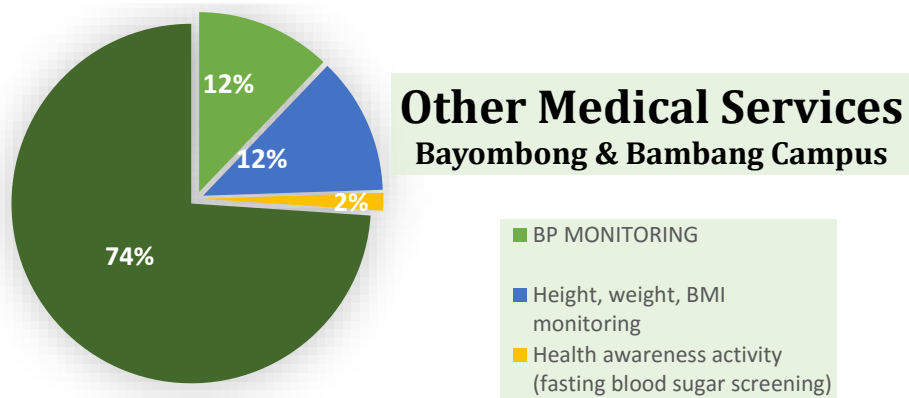
Total No. of Library Materials as of 2019 Bambang Campus



Medical Services

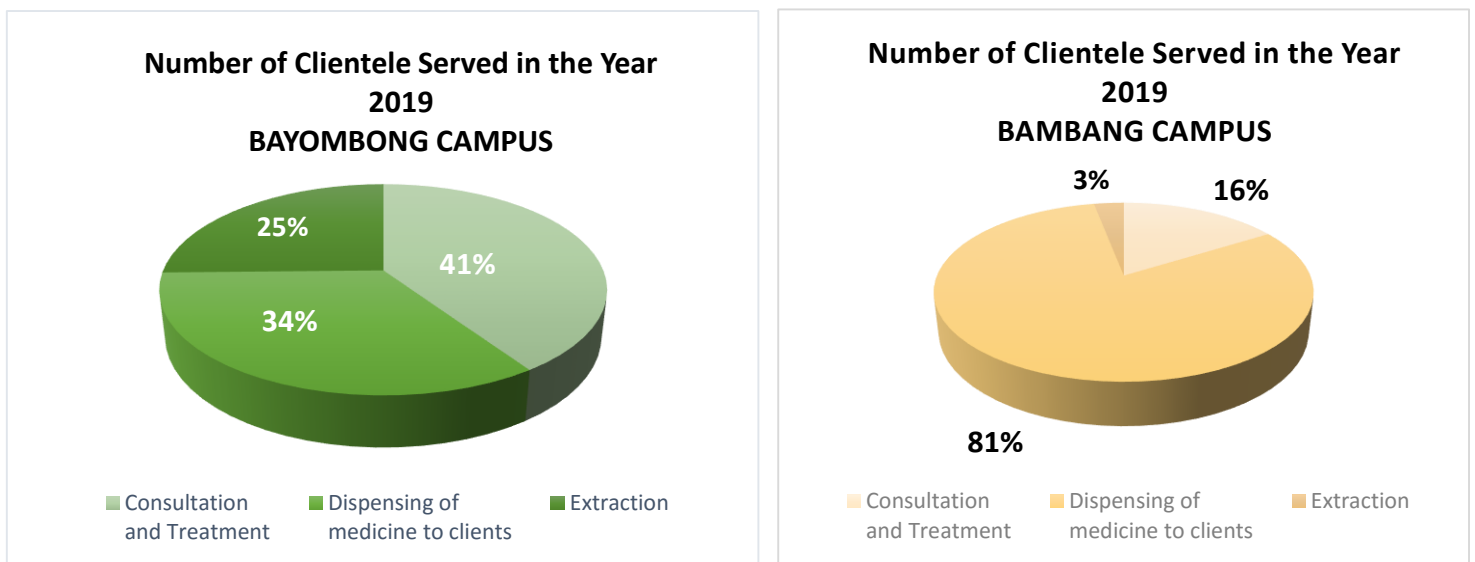
School Health Services are established at the school site to promote the health of students through disease prevention, early case finding, referral for intervention and remediation of specific health problems. The school health services are vitally necessary in order to provide first aid and triage for illness and injuries, to provide direct services for students with special needs, and to provide health counseling and education for students, staff, and parents.

The figure below shows the percentage distribution of patients/clients served through various medical services. Blood pressure monitoring, and body mass index monitoring were the most health cases attended to. Severe cases which cannot be handled were referred to the hospitals or medical clinics outside the University.



Dental Services

The University also assures the oral health of the students and the faculty and staff. For 2019, the Bayombong Campus Dental Service was able to attend to 1,085 clients while Bambang Campus Dental Service was also able to attend to 7,455 clients. The distribution of service rendered is shown on the graph below.





TECHNOLOGICAL ADVANCEMENT





Research and Development Highlights



A. NVSU TBI: *Sabatan* Technopreneurs Hub



Dr. Cristina R. Salvosa, the project leader of the NVSU HeIRIT project presents the university's TBI proposal to the panel (upper photo). Second Batch of SUC's who were granted the DOST HeIRIT Program (lower photo).

NVSU is now one of the 17 state universities and colleges (SUC) technopreneurship hubs in the Philippines with its approved project entitled "Establishing the *Sabatan*: The Nueva Vizcaya State University Technopreneurs Hub" under the Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development, Higher Education Institution Readiness for Innovation and Technopreneurship (DOST-PCIEERD HeIRIT).

As a result, NVSU held *Panagsasabat 2019*: Stakeholders Forum and Exhibition on Innovation and Technopreneurship to formally kick-off the NVSU's Technology Business Incubator – *Sabatan* Technopreneurs Hub, at NVSU Mini Theater, Bayombong, Nueva Vizcaya last December 13, 2019 with Dr. Rowena Cristina L. Guevara, Undersecretary for Research & Development of Department of Science and Technology (DOST) as the keynote speaker.

Panagsasabat 2019 was a whole day event which included a press conference, technology exhibit, awareness symposium and ideation workshop, in order to inform the public, and to invite possible incubatees, mentors, investors, and partners of the NVSU *Sabatan* Technopreneurs Hub. The event was attended by the project's potential partners from the different agencies like DOST, Provincial Local Government of Nueva Vizcaya (PLGU), Philippine Chamber of Commerce and Industry, Fred's Wine food entrepreneurs from Dupax del Norte, Rural Bank of Solano, Malabing Valley Multi-Purpose Cooperative, Fablab Santiago City, SUC and higher education Institutions like Saint Mary's University (SMU), PLT College, Ifugao State University (IFSU), media partners, and the faculty and staff of NVSU.





NVSU PANAGSASABAT 2019: Stakeholders Forum and Exhibition on Innovation and Technopreneurship: Press Conference, Technology Exhibit, Awareness Symposium and Ideation Workshop.



B. NVSU as Niche Center in the Region for R & D (Nicer) Citrus



Dear Dr. Taguiam:

Dear Dr. Taguiam, we are pleased to inform you that based on the recommendation of the Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD), we are formally recognizing the Nueva Vizcaya State University (NVSU) as Niche Center in the Regions for R&D (NICER) for Citrus through the Citrus Resources R&D Center (CRRDC). We took note of the Center's research accomplishments, the alignment of its program with the Harmonized National R&D Agenda (HNRDA) and the capability of the university to sustain the center through counterpart funding and active collaboration with other institutions.

We commend all your efforts on citrus R&D and we look forward to more projects in the future.

Thank you.

Sincerely yours,

F. T. de la Peña
FORTUNATO T. DE LA PEÑA
 Secretary

University	Research Focus
Benguet State University (BSU)	for White Potato
Tarlac Agricultural University (TAU)	for Sweet Potato
Cebu Technological University (CTU)	for Biodiversity
Samar State University (SSU)	for Crustaceans
University of the Philippines - Visayas (UPV)	for Mollusk
Nueva Vizcaya State University (NVSU)	for Citrus
Isabela State University (ISU)	for Lobed Mullet and Eel
Pampanga State Agricultural University (PSAU)	for Tamarind
Bicol University (BU)	for Pill
Caraga State University (CarSU)	for Industrial Tree Plantation Species
Mindanao State University (MSU)	Naawan for Sea Cucumber

Presented in the Director's report of Dr. Melvin B. Carlos during the PCAARRD Anniversary.

The Department of Science and Technology (DOST) Executive Committee and the DOST - Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development of the DOST (DOST-PCAARRD) Governing Council approved the implementation of six additional Niche Centers in the Region for R&D (NICER) Programs including Nueva Vizcaya State University (NVSU). With the aim of accelerating regional industrial competitiveness, the NICER Program capacitates higher education institutions (HEIs) to conduct quality research that promotes regional development.



C. DA-NVSU Partnership



(1) NVSU RET with DA Sec. William Dar (upper left) and (2) Dr. Nicomedez P. Eleazar (upper right). (3) NVSU workforce during the 2-day writeshop to draft the proposals.

The NVSU strengthens its partnership with the Department of Agriculture as it explores RDE opportunities towards inclusive agribusiness for commodities like citrus, banana, and shiitake mushroom. The Research, Extension & Training (RET) team met with DA Secretary William D. Dar to discuss the possible proposals for these commodities last October 21, 2019 at DA Office, Quezon City.

In this connection, Dr. Nicomedes P. Eleazar, DA Assistant Secretary for Special Affairs and Bureau of Agricultural Research Director (DA-BAR) conducted an assessment visit of RET facilities on November 21, 2019. He further emphasized the crafting of the proposals which targets the expansion of the: (1) citrus project, (2) mushroom project using Taiwan variety and (3) banana project.

As a response, the NVSU workforce conducted a two-day writeshop in December 2-3, 2019 at Amancio's Dairy & Produce Farm, Cordon Isabela. It aimed to package seven proposals focused on the commodities mentioned above geared towards inclusive agribusiness. These proposals were already submitted to DA-BAR for funding and implementation.

D. DOST and DA-BAR Funds 7 Projects Worth PHP 35 Million



Seven (7) new externally funded projects were implemented for 2019 generating total funds of Php 35,430,478.08 from DOST and DA-BAR.

TITLE	PROPONENT	FUNDING AGENCY	AMOUNT
Field Testing, Pilot Scale Production and Market Study of Locally-Developed Bioinsecticide for Eggplant	Ferdinand B. Arcala	DOST-TAPI	PHP 3,687,755.2
Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub	Cristina R. Salvosa Wilfredo A. Dumale Sheena Lyn V. Ramos Blesila Ramos Frankie M. Ramos	DOST-PCIEERD	PHP 8,383,632.00
Development of Formulated Entomopathogenic Fungi (EPF) as Biofungicide Against Tomato Black Leaf Mold (TBLM)	Jonar I. Yago Melvin R. Cubian Ramon P. Bangao, Jr. Maribel S. Bacena Fil-art Marie B. Baltazar	DA-BAR	PHP 7,359,090.88
Commercializing Whole Corm Macropropagation Technology for Lakatan and Bungulan: A Viabe Livelihood Option for Banana Farmers in Nueva Vizcaya	Elbert A. Sana		Php 5,000,000.00
Harnessing Research and Development Through Acquisition of Scanning Electron Microscopy	Jonar I. Yago		Php 5,000,000.00
Upgrading of R&D Facilities of Plant Pest Clinic and Diagnostic Center in Cagayan Valley	Jonar I. Yago	DOST – PCAARRD	Php 5,000,000.00
KLABS21: A Web-based Trading Systems of Fruits and Vegetables Phase 2	Ryan Victor Bautista, Ian Kim Seglibon & Percival Labog	DOST R02	Php 1,000,000.00

E. Conduct of the 16th UIHR of Completed and On-going RDE Projects



Conduct of 16th UIHR last October 3-4, 2019 at NVSU Bayombong, Nueva Vizcaya

A total of **70 RDE projects** were presented and reviewed during the NVSU's 16th UIHR held last October 3-4, 2019 at NVSU, Bayombong, Nueva Vizcaya; 35 of which were on-going and 35 were completed projects.

CATEGORY	NUMBER OF PAPERS PRESENTED
Research	22
Development	22
Higher Education	13
Social Sciences	13



R&DE PROJECT UPDATES



A. R&D Salient Project Accomplishments Update For 2019

To monitor the deliverables of the projects under the RET program, salient accomplishments for 2019 are presented below:

1. Citrus Resources Research and Development Center

Center Director: Dr. Elbert A. Sana

- **Actualization of a Quality Planting Materials Production System (QPMP) Model for Citrus in Cagayan Valley (November 2018-November 2019)**

- ✓ NVSU Nursery was **ACCREDITED** with **CERTIFIED** mother trees
- ✓ Nursery Accreditation by BPI (August 06, 2019)
- ✓ Mother Tree Certification (August 06, 2019)



- **Molecular Detection of HLB**

- **NVSU laboratory provided indexing service to the following:**

- ✓ One private orchard in Isabela with five pummelo mother trees
- ✓ One private orchard in Calauan, Laguna with three Calamansi mother trees
- ✓ Our Lady of Chartres Convent, Antipolo City with three Pummelo mother trees
- ✓ The Regional Plant Quarantine Services, Cagayan with 20 pummelo seedlings

- **A niche for NVSU to partner with the Regional Plant Quarantine Services Division in disease indexing for inter-island transport of citrus planting materials**

- **CRRDC continued production of citrus budded/grafted seedlings**

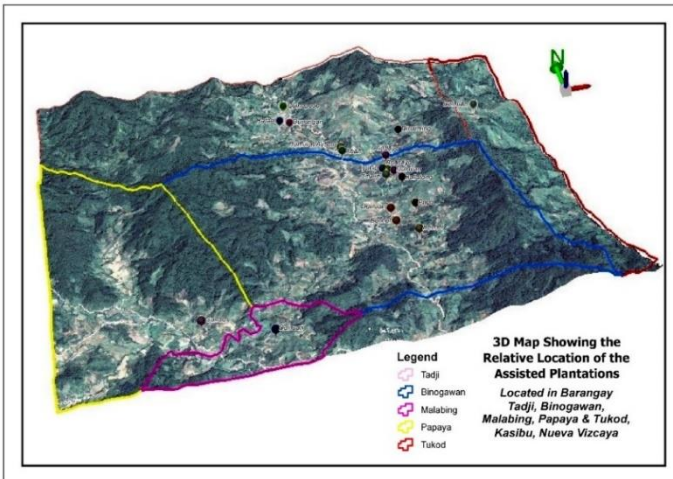
- **New orchards in Nueva Vizcaya with NVSU planting materials:**

Year	Number of Farms	Location	Number of Seedlings	Variety
2017	4	Cabuluan, Villaverde	710	Satsuma
	2	Sinapaoan and Buyasyas, Sta. Fe	300	Satsuma
	1	Belance, Dupax Del Sur	100	Satsuma
2018	3	Cabuluan, Villaverde	225	Satsuma
	1	Barat, Bambang	100	Calamansi
2019	7	Buyasyas, Sta. Fe	610	Satsuma
	3	Almaguer, Bambang	640	Calamansi, Magallanes, Trovita
	1	Cabuluan, Villaverde	250	Satsuma
	1	Malabing, Kasibu	150	Meyer Lemon
	1	Bayombong	105	Meyer Lemon

- **CRRDC partnered with the Cagayan Valley Citrus Industry Development Council and Mama Sita Foundation**

- ✓ Propagated *Luz* Calamansi and distributed 100 seedlings each to three beneficiary groups from Aurora, Isabela





- CRRDC facilitated a training for Aurora Citrus Farmers Marketing Cooperative on rapid propagation technique for calamansi (October 11, 2019).

- On-going GIS-based profiling of citrus growers and their management practices in Kasibu, Nueva Vizcaya

- Economic analysis of the two-cycle technoshowcase of best orchard practices in Malabing, Kasibu, Nueva Vizcaya

- ✓ Raised productivity of demo-area (5,000 m²) in Kasibu from 15 tons/ha to over 22 tons/ha
- ✓ **Project Interventions:** Soil analysis, recommended fertilizer application, timely pesticide spray, and microsprinkler irrigation guided with a tensiometer (irrometer)



- CRRDC developed an on-line resource system: CITRIS (Citrus Germplasm Resources Information System)

- ✓ **Views** Accessible **ONLINE** CITRIS (publicly viewed)
- ✓ **Displays** citrus collections
- ✓ Allows **search** and **viewing** of information



2. Project title: Conservation, Improvement and Profitable Utilization of the Philippine native Pigs Organized breeding and selection for the establishment of breeding true to type native pig populations in the Cordillera Administrative Region, Cagayan Valley, Calabarzon and Mimaropa regions.

Researchers: Dr. Joel Kayvin Petipit, Dr. Dorothy P. Pagbilao, Dr. Rembert G. Gapad

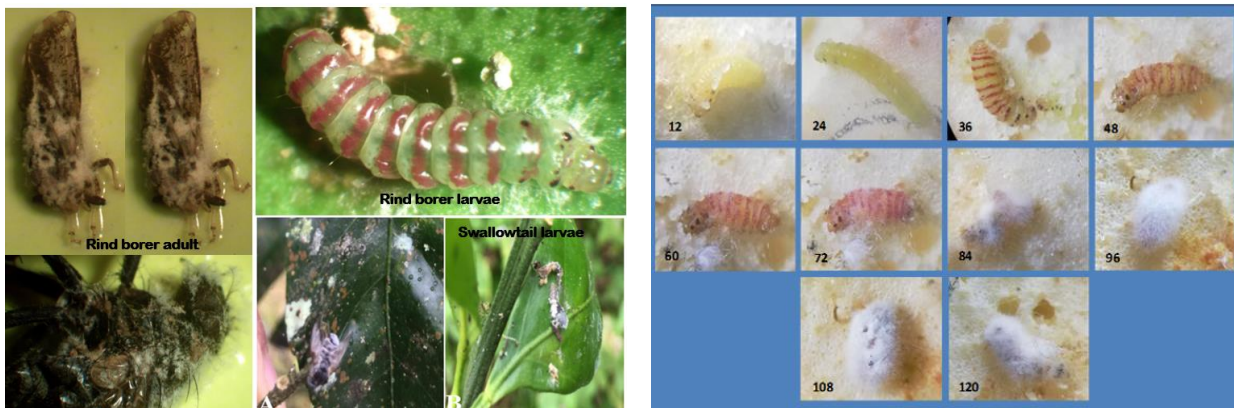


- ✓ The qualitative and quantitative phenotypic characteristics of the mixed foundation stock improved to a Biskaya native pig after breeding/mating and selection. Moreover, the Biskaya native pigs expressed heritability estimates and prediction model which are considered economically important traits.
- ✓ The Project was a venue for Doctor of Veterinary Medicine, Bachelor in Animal Science and Diploma in Agriculture students in doing hands-on activities which enhanced their competency in phenotypic characterization, feed preparation, corn grinding, mixing of native pig diet, hygiene and sanitation, deworming, castration and other activities.
- ✓ Faculty members, staff and students conducted organoleptic evaluation of native pig products.
- ✓ The project proponents submitted a utility model which was later approved for registration.
- ✓ The project generated P 261,504 income and deposited in TR72 generating fund of the native pig program. Other income generated was utilized in the development of range and pens, repair of equipment for native pigs, hired labor, transportation of native pig staffs and purchased supplies to and from the project and others that are not included in the line budget



3. Project Title: Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (*Prays endolemma* Diakonoff) on Satsuma Mandarin (*Citrus unshiu*)

Researchers: Jonar I. Yago, Elmerito T. Irabagon, Lori Shayne A. Busa, Jo-Eliz m. Gonzales, Mark Christopher E. Valdez, Jessie I. Yago, and Billy Joe N. Llantero



- ✓ Out of 18 isolates, two records were recorded as popular EPF in the Philippines such as *Beauveria bassiana* and *Isaria fumosorosea*
- ✓ Sixteen were new reports and considered as endemic EPF. To our understanding, this is a new report on EPF in citrus agro-ecosystems in the Philippines.
- ✓ 1×10^6 spore concentration exhibited the highest percentage of mortality as high at 100 ninety six hours after inoculation
- ✓ The three EPF recorded were effective to control CRB with percent mortality of 96.70% to 100%
- ✓ Significant reduction on the number of flower drops, fruit drops and number fruits with lumps were observed when EPF were used as biological control agents against CRB.
- ✓ This is a first report using EPF against CRB. The results that were derived proved that using EPF is effective and a potential and promising for commercialization.

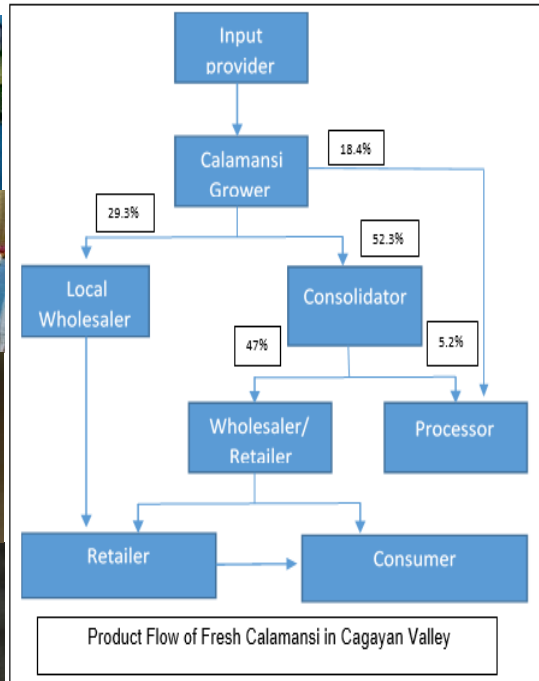
OUTPUTS:

- ✓ 1 scientific paper (under review-Archives of Phytopathology Journal)
- ✓ 3 research abstracts published at PFA and MSP (Special Citation Award) and PPS proceedings
- ✓ 1 primer for printing, 1 patent (Utility model) 2 patents pending
- ✓ 2 formulated biopesticides for standardization
- ✓ 1 MS Biochemistry- DOST-SEI Foreign Scholarship at NCHU
- ✓ 1 PhD Biochemistry- DOST-SEI Foreign Scholarship at NCHU
- ✓ 5 trained NVSU personnel
 - Places and partnership
- ✓ TARI- focal research agency
- ✓ NCHU- with approved MOA
- ✓ NTU- on-going talk about systemic acquired resistance (SAR) proposal on TBD of citrus



4. Project Title: Value Chain Analysis of Citrus in Cagayan Valley

Researcher: Gayon P. Sarmiento



- ✓ Mapped the value chain analysis of calamansi in Region 2
- ✓ Found out that the key customers of calamansi were the processors
- ✓ But despite the number of processors who could buy volumes of calamansi farm-gate price would range from P2/kg to P60/kg during the lean months. The price was normally dictated by consolidators who would sell calamansi to processors
- ✓ Generally, processors buy from consolidators and not directly from farmers.

5. Project Title: Supply Chain Improvement of Soybean in Northern Philippines (Phase 1: Evaluation Research)

Researcher: Gayon P. Sarmiento



- ✓ There were 45 farmers interviewed, 3 Divisoria traders, 4 local traders/retailers and 14 processors.
- ✓ When the soybean project of the government was launched in 2011, there were many farmers who went into growing soybean.
- ✓ From 2012 to 2015 was the peak of soybean production in terms of hectareage and production. However, in 2018, many farmers stopped planting.
- ✓ All of the farmers planting soybeans in Region 02 were being assisted by the DA. With the DA assistance, farmers obtained an average yield of 1.54t/ha.
- ✓ The supply chain map of soybean in Regions 2 and 3 showed the 1) key customers and their product requirements; 2) key players and their roles; 3) activities and processes involved; 4) flow of product, payment, and information; 5) logistic concerns; and 6) external influences



6. Project Title: Homogenizing Nutritional Requirements of Livestock through the Development of a Transportable Livestock Feed Mixer

Researchers: Fitzgerald L. Fabelico, Willy C. Duldulao



✓ The transportable feed mixer was successfully designed, developed, and tested to ensure relatively optimum efficiency in homogenizing the nutritional requirement of agricultural animals.

✓ The said machine with 3 Hp motor can obtain a mixing performance of 93.61% at 7.31 minutes for a maximum capacity of 250 kg of feed mixtures.

✓ Highly economical with an energy input of only 19.67 KW/h amounted to PhP 209.50 only.

7. Project Title: Homogenizing Nutritional Requirements of Livestock Through The Development Of A Transportable Livestock Feed Mixer

Researchers: Fitzgerald L. Fabelico, Willy C. Duldulao



✓ The diesel-powered hammer mill was designed, developed, and tested to ensure relatively high efficiency in optimizing the comminution properties and particle size of grains and legumes.

✓ It can yield 93% income in the production of hammer milled soya when compared to the commercial ground soya.

✓ The developed hammer mill which was fabricated from locally available materials is relatively effective and efficient, convenient, easy to maintain, and economical in producing milled grains and legumes that can be used as raw materials or ingredients in the production for livestock feeds.

✓ Furthermore, the said machine is strongly recommended to be used by small and medium scale livestock raisers in the production of grains and legumes.



8. Project Title: Rapid Market Appraisal of Major Crops in Abagatan Cluster, Nueva Vizcaya

Researchers: Cristina R. Salvosa , Rachel Hope R. Tiongson , Daren S. Eraña

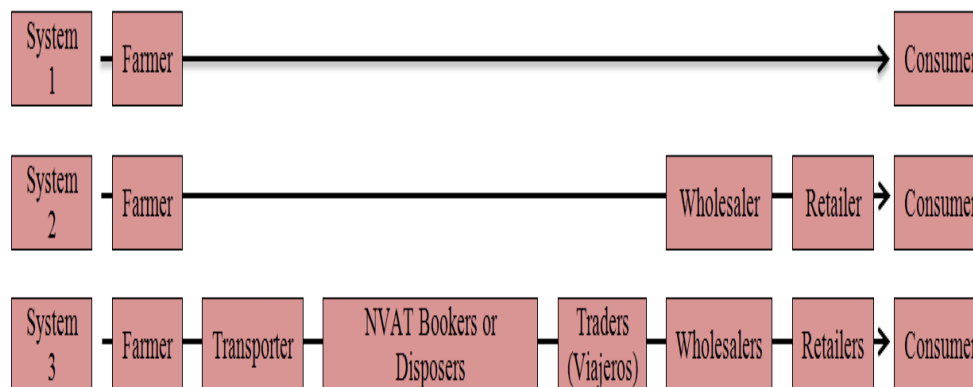


Figure: Marketing Systems and Commodity Flow in the Abagatan Cluster

- ✓ The Abagatan cluster composed of the upland municipalities, namely: Ambaguio, Kasibu, Dupax del Norte, Santa Fe and Kayapa – producing major vegetables crops identified by the Department of Agrarian Reform which includes tomato, squash, ginger, cabbage and chayote.

9. Project Title: Development of a Compact Biomass Shredder: Its Efficacy in Recycling Agricultural Crop Residues

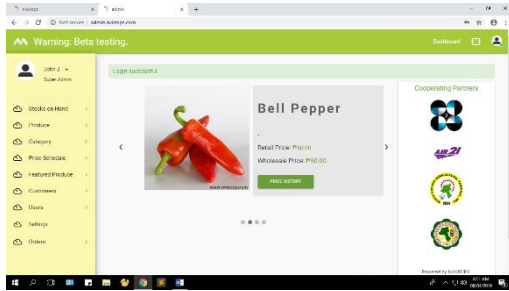
Researchers: Fitzgerald L. Fabelico and Willy C. Duldulao



- ✓ The compact biomass shredder was developed effectively to recycle agricultural crop residues. The said machine with 1 Hp motor with 2800 rpm can have comparable shredding efficiency regardless the mass of the agricultural residue.
- ✓ It can have an optimum performance with 99.4 % shredding efficiency regardless of the mass of the samples.
- ✓ The shredder can operate with a maximum capacity of 750 g of corn biomass producing 621.9 g/h machine productivity, 624 g/min throughput efficiency, 1.20 minutes shredding time and only requires a power of 37.3 KW/h at PhP 397.00 per hour only.

10. Project Title: KLABS21: A Web-based Trading System of Fruits & Vegetables

Researchers: Ian Kim B. Seligbon, Percival Labog, Ryan Victor D. Bautista



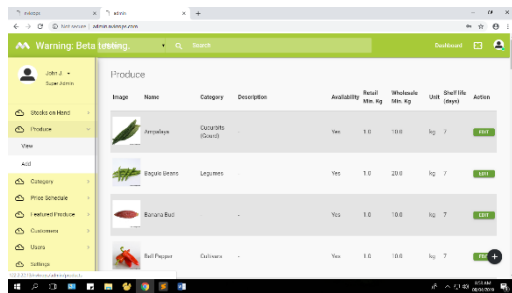
- ✓ KLAB successfully developed its 3 modules:
 - Administrator Dashboard Component
 - End-User Interface Component
 - Air21 Access Interface Component

✓ The functionality, reliability, and efficiency of the project was highly acceptable by NVAT.

✓ Its use and implementation was highly recommended.

✓ The developed web application system can improve the profitability of farm products of farmers from Nueva Vizcaya and its neighbouring provinces.

✓ Furthermore, the requirements for the development of efficient agricultural trading and marketing information systems ought to be clearly spelt out to enable the government to provide the required support.



11. Project Title: Capacitating Farmers on Integrated Pest Management and Entrepreneurship for Sustainable Rural Development

Researchers: Dr. Elbert A. Sana and Flora Joy B. Garcia



- ✓ Profile of 30 RIC members
- ✓ Knowledge on Vegetable Farming as a Business increased by over 16% in comparison with Pre-KSA survey
- ✓ Vegetable Noodle and Chip Production
 - Hands-on training
 - Workshops Series on bookkeeping, cooperative, and organizational management)
 - Basic equipment for noodle and chip making and packaging
 - 1 noodle maker, 2 impulse sealers, blender, boiler, burner, noodle moulder, printer
- ✓ Market Strategy:
 - Connecting with LGU for local exhibits
 - Outlet to RIC member managing a restaurant
 - Special occasions (field day, project review)
 - School and Social media promotions
- ✓ Lakbay-Aral, Appreciation Tour, and Farmers' Field Day

12. Project Title: Commercialization of Shiitake Production and Product Development Technology in Nueva Vizcaya

Researchers: Maribel S. Bacena*, Flora Joy B. Garcia, Roel M. Suriaga, Senialyn D. Cacal, and Eric Son R. dela Cruz



- ✓ Upscaled spawn production from 300 to 1,000-1500 bottles/packs per year



- ✓ Established 10 Shiitake mushroom growers in Nueva Vizcaya, six from Kayapa, and four from Dupax del Norte, Nueva Vizcaya.
- ✓ Provided training on :
 - Shiitake production was conducted on February 27-28, 2017 at Amancio Dairy and Produce Farm, Caquilingan, Cordon, Isabela.
 - Shiitake Processing last October 18 and 19, 2018 at Giayan, Dupax del Norte and Pampang, Kayapa, Nueva Vizcaya respectively.
 - Field Day. A Farmer Visit and Sharing Day was conducted at Giayan, Dupax del Norte, Nueva Vizcaya last November 29, 2017.
- ✓ Product and By-Product Development and Commercialization.
 - Shiitake Chili Paste and Shiitake Turmeric Tea were the top products from processing. These products were initially subjected to sensory evaluation at NVSU before submitting samples for Nutrient Analysis and Real time Shelf-life Testing. Both analyses were conducted by SGS Philippines.
- ✓ The total production ranged from 763.50 kg to 1,060.00 with an average of 896.47 kg (July 2017 to March 2019).

13. Project Title: Pagadalan ti Mannalon: A DA-SUC-LGU 'Steering and Rowing Approach' in Establishing Learning Sites for Farmers in Nueva Vizcaya (ExPAND PROJECT)

Researchers: Imelda V. Iglesias, Flora Joy B. Garcia, and Andres Z. Taguiam



- ✓ Established 10 learning sites: Bagabag, Bayombong, Diadi, Dupax del Norte, Kasibu, Kayapa, Quezon, Santa Fe, Solano and Dupax del Norte
- ✓ Conducted 31 trainings with 1,095 participants



14. Project Title: **Linguwistikong Entograpiya ng Filipinas Sa Wikang Isinay**

Researchers: *Alvin B. Felix, Sheena Lyn V. Ramos, and Gerald F. Lobeban*



- ✓ Conducted fieldwork at the Isinay Communities: Aritao, Bambang, Dupax del Sur, Nueva Vizcaya
- ✓ Validation of data was conducted already
- ✓ Manuscript was submitted and finalized

15. Project Title: **Etnolingwistikong Pag-aaral sa Wika, Kultura, at Pamumuhay ng mga Katutubong Gaddang**

Researchers: *Joey M. Villanueva, Ma. Rousselle G. Jandoc, and Denny B. Jamil*



- ✓ Conducted fieldwork at the Isinay Communities: Aritao, Bambang, Dupax del Sur, Nueva Vizcaya
- ✓ Accomplished validation of data
- ✓ Submitted manuscript



B. List of Completed Projects

Thirty five (35) researches were successfully implemented by the faculty researchers of the different colleges and RET personnel of both campuses this 2019.



TITLE	PROPONENTS
CRR4DCV PI: Value Chain Analysis of Citrus in Cagayan Valley	Gayon P. Sarmiento, Roel M. Suriaga and Aleksis P. Sarmiento
Supply Chain Improvement of Soybean in Northern Philippines (Phase I: Evaluation Research)	Gayon P. Sarmiento, Roel M. Suriaga and Aleksis P. Sarmiento
Homogenizing Nutritional Requirements of Livestock Through the Development of a Transportable Livestock Feed Mixer	Fitzgerald L. Fabelico and Willy C. Duldulao
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs PI: Organized Breeding and Selection for the Establishment of Breeding True to Type Native Pig Population in the CAR, Cagayan Valley, Calabarzon, and Mimaropa Regions	Dorothy P. Pagbilao, Rembert G. Gapad, and Joel Kayvin S. Petipit
Optimizing the Comminution Properties and Particle Size Characterization of Biomass and Grain Legumes through the Development of a Diesel-Powered Hammer Mill	Fitzgerald L. Fabelico and Willy C. Duldulao
Rapid Market Appraisal of Selected Agrarian Reform Communities (ARCs) Cluster in Nueva Vizcaya	Cristina R. Salvosa, Rachel Hope R. Tiongson, and Daren Erana
Development of a Compact Biomass Shredder: Its Efficacy in Recycling Agricultural Crop Residues	Fitzgerald L. Fabelico and Willy C. Duldulao
Assessing the Governance Performance of Villaverde LGU: Using the Citizen Satisfaction Index System	Cristina R. Salvosa, Dolores B. Galvez, Josue A. Chua, Mary Hazel Joy C. Ugot, and Mercy Pumihic
Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (Prays endolemma Diakonoff) on Satsuma Mandarin (Citrus unshiu)	Jonar I. Yago, Elmerito T. Irabagon, Lori Shayne A. Busa, Jo-Eliz m. Gonzales, Mark Christopher E. Valdez, Jessie I. Yago, and Billy Joe N. Llantero
Development of KLABS21: A Web-based Trading System of Fruits & Vegetables	Percival B. Labog, Ian Kim P. Seligbon, And Ryan Victor P. Bautista
Support Surveillance of Fasciolosis in Ruminants (Cattle, Carabao and Goats) in the Provinces of Region II	Liberty G. Torres, Haidee E. Torio, and Mark John S. Beltran
Agritourism Management Practices in Nueva Vizcaya, Philippines	Evangeline C. Remolazo
"Pagadalan ti Mannalon" A DA-LGU Steering and Rowing Approach in Establishing Learning Sites for Farmers in Nueva Vizcaya	Imelda V Iglesias, Flora Joy B. Garcia, and Andres Z. Taguiam

Commercialization of Shiitake Production and Prod cut Development technology in Nueva Vizcaya	Maribel S. Bacerra, Flora Joy B. Garcia, Roel M. Suriaga, Eric Son R. Dela Cruz, and Senialyn D. Cacal
Kitang-Kitang Kabuhayan sa Barangay at Paaralan: CTE Extension Program	Demetria A. Corpuz and Ronnie F. Castañeda
Modeling Quality Planting Materials Production System for Citrus in Nueva Vizcaya	Elbert A. Sana, Gina Leah A. Dizon, Jovelyn M. Guillermo, Joy Lyn P. Dung-ao and Fernando M. Nabulneg
Why awareness matters? An Evaluation of Student Services and Facilities Study 1: Awareness and Evaluation of Student Services Study 2: Awareness and Evaluation of Student Facilities	Dolores B. Galvez, Mercedes B. Pumihic, and Ma. Elizabeth B. Espiritu
Licensure Performance, Study Habits and Challenges Encountered by Nueva Vizcaya State University Teacher Education Graduates	Demetria A Corpuz
Extension Services and Outreach Programs of the College of Teacher Education: Basis for Development of Enhancement Plan	Demetria A Corpuz, Bonimar T. Afalla, Sanny J. Dangis and Gail G. Gumilet
Millennial' s Learning Style: Towards Matching Teachers' Teaching Style	Sanny J. Dangis, Bonimar T. Afalla, Gail G. Gumilet, Demetria A. Corpuz, Jeronimo De Jesus, Cheny Ann P. Navalta, and Orville D. Hombrebueno
Assessment Practices in Paper-and Pencil Tests among Faculty Members in a Higher Education Institution	Juanita B. Pascua, Jane D. Navalta, and Cherry Ann P. Navalta
Profile and Competence of Alternative Learning System Completer's in Tertiary Education	Josefina S. Sana, Jane D. Navalta, Juanita B. Pascua, Cherry Ann P. Navalta, Jay-ar A. Castriciones, and Vilchor G. Perdido
Scientific Literacy and Inquiry in the 21st Century Among the Biology Majors at a State University in Southern Nueva Vizcaya	Noel C. Cardona, Jr. and Mary Gay T. Aguila
Determinant of Service Quality of Fast Casual Dining Establishment in Nueva Vizcaya	Allen Mark T. Razalan, Rhea L. Adriatico, and Chrizel Mae V. Pagbilao
Fiscal Administrative Practices and Competencies of Municipal Local Fiscal Administrators: The Case of MLGU-Bambang, Nueva Vizcaya	Arcadia Alice T. Ordonez
Perseverance and Passion in the Teaching Profession: Teachers' Grit, Self-Efficacy, Burnout, and Performance	Fitzgerald L. Fabelico and Bonimar T. Afalla
Formulation of Standard Operational Instruction Process for Board Secretaries	June Grace C. Domingo
Lingguwistikong Etnograpiya ng Filipinas sa wikang Gaddang	Joey Villanueva, Denny B. Jamil, and Ma. Rousselle G. Jandoc
Lingguwistikong Etnograpiya ng Filipinas sa wikang Isinay	Alvin B. Felix, Gerald F. Lobeban, and Sheena Lyn V. Ramos
Mga Inang Kolehiyala: Life Stories of Young Mothers in NVSU	Lorna L. Oligo and Ma. Rousselle G.Jandoc
Bolwa: The Meat Sharing Tradition Of Ifugao	Romana P. Dulnuan
Gender Responsiveness of Guidance and Counseling Centers Phase I	Maria Rousselle G. Jandoc, and Lorna L. Oligo
Leadership Behavior of the Sangguniang Kabataan Officials in Kasibu, Nueva Vizcaya: Its Relationship to Attitude Towards Work	Arcadia Alice T. Ordonez
Upgrading the NVSU Crop and Soil Analytical Services Laboratory for Enhancing Citrus Research for Development	Elbert A. Sana
Technical Performance and Economic Analysis of Modified Water Wheel Pump for Pumping Irrigation Water	June C. Quipo



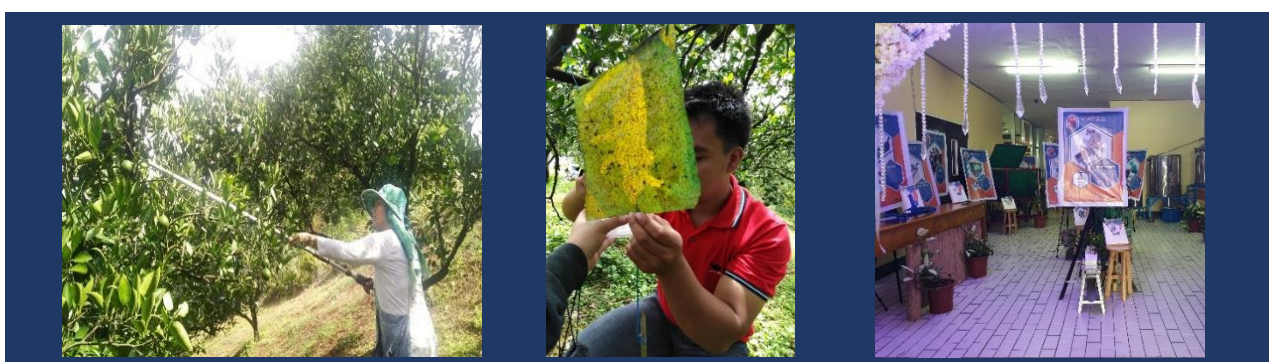
C. List of On-going Projects

Thirty Seven (37) researches, projects and studies which are either externally or institutionally funded are being implemented by researchers of the University this 2019.

TITLE	PROPOSERS
Turmeric Ginger with Ginger Bits: An Artisanal Ice Cream	Evangeline C. Remolazo, Marites M. Fronda, Joan M. Nebrida, Michelle A. Abalos, Marvin Jay A. Tagnong, and Ermelinda P. Depayso
Philippine Isolates of Entomopathogenic Fungi as Potential Source of Microbial Agents Citrus Rind Borer (CRB) and Twig Blight Disease (TBD) of Citrus	Jonar I. Yago, Lori Shayne A. Busa, Melvin R. Cubian, Jo-Eliz M. Gonzales, Samboy G. Gilo, and Alvin V. Galamay
Development of microfluidic paper-based analytical devices (μ PADs) for the detection of Diarrhea-causing pathogens in water	Lori Shayne A. Busa, Gina Leah A. Dizon, Daniel Marvin B. Ramel, Jose Comia, Reymund C. Derilo, Kathleen Martin, Erlyn Jane C. Garcia, Kristine Jane P. de Leon, Lorna V. Dumale, and Jenifer Galamay
CRR4DCV P5: Development and Verification of Soil and Water Management Strategies for Citrus Production	Wilfredo A. Dumale, Jr., Jessie Pascual P. Bitog, Marnellie L. Pini, Roval D. Butac, and Jerwin D. Osdon
Field Testing, Pilot Scale Production and Market Study of Locally-Developed Bioinsecticide for Eggplant	Ferdinand B. Arcala
Spatial Information Support for Field Laboratory for Courses in Forestry and Allied Curricular Programs Study Title: Methodologies of image analysis-based leaf area measurement	Arvin P. Vallesteros, Shierel F. Vallesteros, Marlon U. Saludarez, Heidi A. De Guzman, and Erick Jhay C. Maestre
Substrate Formulations for African night crawler (<i>Eudrilus eugeniae</i>) Enhanced with <i>Ipomoea aquatica</i>	Yolina T. Castañeto, Elmer T. Castañeto, and Rogelio P. Pascua
Alternative Propagation Techniques for Indigenous Forest Trees: Clonal Propagation of Indigenous Tree Species Using Stem Cuttings	Yolina T. Castañeto and Elmer T. Castañeto
Development and Performance Evaluation of a Portable Essential Oil Extractor	Fitzgerald L. Fabelico and Frankie M. Ramos
Efficacy Evaluation of Biopesticides Derived from Entomopathogenic Fungi (EPF) Against Rind Borer and Twig Blight Disease (TBD) of Citrus	Jonar I. Yago
Enhancing the Intellectual Property and Technology Business Management (IP-TBM) Operations of the Nueva Vizcaya State University	Blesila R. Ramos, Josue A. Chua, and Jeremy V. Dasalla
Pagadalan iti Barangay: A Unified Open College towards an Interdisciplinary Approach in Research and Extension Continuum	Blesila R. Ramos and Edwin P. Ramos
Capacitating Farmers on Integrated Pest Management and Entrepreneurship for Sustainable Development: Empowering Women of Tidang Village through Entrepreneurship on Vegetable Processing and Marketing	Elbert A. Sana, Fredisminda M. Dolojan, and Flora Joy B. Garcia
Karunungan, Kakayahan at Kabuhayan para sa mga Mag-aaral at Mamamayan	Demetria A. Corpuz and Ronnie F. Castañeda
Project MASOC: Movement for an Active, Stable, and Organized Community	Gerald F. Lobeban et al.
Empowering Communities through Development and Livelihood Project	Florie Jean C. Vicente et al.



Establishment of Agroforestry Demonstration Farm cum Implementation of Livelihood Projects	Susana C. Osing et al.
Beterinaryo sa Baryo Extension Program	Melvin O. Allama et al.
Financial Literacy and Social Entrepreneurship	Josue A. Chua et al.
Technical Services and Values Formation for the Barobbob Watershed Occupant	Micah Ryan B. Ramel
Skills Training: "Teknikal na Kaalaman, Kahusayan para sa Kabuhayan	Marife A. Aliaga, Rogelio A. Abalos, Jr. et al.
The Functional Literacy Program P1: Munting Paaralan: Habang Buhay na Kaalaman P2: Tulong, Dunong, Sulong P3: Skills Training on Meat Processing and T-shirt Printing	Hana Gay D. Mejia et al.
Program COL 3	Evelyn R. Layno et al
"Handog Kaalaman at Serbisyong Pangteknikal": Training-Workshop on Basic Electricity, Basic Electronics System, Computer Literacy and Shop & Industrial Processes	Jane P. Agbanlog et al.
Vermicompost Production and Technology Dissemination	Elmer T. Castañeto, Rogelio P. Pascua, and Jovien L. Ansibey
Establishment of Demonstration Farm in the College of Agriculture	Blesila R. Ramos et al.
Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub"	Cristina R. Salvosa, Wilfredo A. Dumale, and Sheena Lyn V. Ramos
Anaerobic Digestion: Energy Generation and Utilization for Increased Swine Productivity	Sony P. Aquino et al.
Compliance to the Code of Ethics for Professional Teachers among Faculty Members	Juanita B. Pascua and Jane D. Navalta
Employment, Learning Experiences and Job Perspectives Among BS Biology Graduates SY 2014-2018	Mercy Las T. Marias and Noel C. Cardona, Jr.
Lived Experiences of Men and Women Contractual Employees: A Hermeneutic Phenomenological Analysis	Albert Garcia, Gerald F. Lobeban, and Maria Rouselle G. Jandoc
Flowing Down Magat River: The Story Of Five Tributaries	Joan A. Pinon
Rama': A Locally-Based Practice In A Philippine Fishing Community	Fermila R. Cauilan
Cultural Mapping Of Ethnographic Objects: Processes, Complexities And Trajectories	Mild R. Hombrebueno and Ma. Rouselle Jandoc
Revisiting Cultural Transition: Mapping Of Significant Religious Artifacts In Bayombong, Nueva Vizcaya, Philippines	Elson Boie Tumaneng and Romana P. Dulnuan
Caught In The Middle: Doing Research With Indigenous Cultural Communities And The Government	Lorna L. Oligo
Flora And The Ifugao World Of Rituals And Traditions	Joseph E. Bubod and Romana P. Dulnuan





AWARDS



Awards

Several researchers were recognized for their research outputs and contributions in international, national, regional and local levels. Among which are best papers and presenters in various symposia. In total, there were **5 international**, **5 national**, **3 regional** and **12 local** awards received in 2019.

International



TITLE OF AWARD	PROPONENT/S	AWARDING BODY/ DATE & VENUE
Best Presenter Award <i>Title of paper: Sociocultural Paradigms in the Works of 21st Century Ilocano Writers of Southern Nueva Vizcaya</i>	Jennifer Raymond R. Tallungan	2 nd Gender and Development Competition and Conference in Research and Education (GADCCIRAE 2019) July 22, 2019, Crown Legacy Hotel, Baguio City, Philippines
Best Research Paper Award <i>Title of paper: Green Practices and Sustainability Performance of a Logistic Company</i>	Rainer Sam G. Mateo	4 th Global Research and Education Conference (GRAEC 2019) May 16, 2019, University Auditorium, University of Northern Philippines, Vigan City, Ilocos Sur
Best Oral Presenter	Shierel F. Vallesteros	Faculty of Agricultural Technology Universitas Brawijaya Malang, Indonesia
Best Paper Award	Marvin B. Ramel	6 th International AnMicro Conference & 20 th Scientific Conference of the Mycological Society of the Philippines
Special Citation Award	Jonar I. Yago	6 th International AnMicro Conference & 20 th Scientific Conference of the Mycological Society of the Philippines



National



TITLE OF AWARD	PROPONENT/S	AWARDING BODY/ DATE & VENUE
Carmeling P. Crisologo Award (Best Research Paper) <i>Title of project: Student Attendance Monitoring System (SAMS)</i>	Ryan Victor D. Bautista	First UNP-ISPSC National Education Congress
Carmeling P. Crisologo Award for Best Research Paper Award for Category 4 – Contemporary Educational Issues <i>Title of Paper: Harmonizing Three Systems Towards Establishment of the NVSU Center for Alternative Education)</i>	Micah Ryan B. Ramel	First UNP-ISPSC National Education Congress
Carmeling P. Crisologo Award for Best Research Paper Award for Category 4 – Social Issues in Education <i>Title of Paper: APEC Women as Prime Movers of Inclusive Business</i>	Micah Ryan B. Ramel	First UNP-ISPSC National Education Congress
3rd Place Best Extension Services Implementation Management Award – Business Education & Social Sciences Category <i>Title of Paper: Citizen – led, Citizen – responsive, Citizen – Owned Governance through Bridging Leadership: The Experience of Two Municipalities in Northern Philippines)</i>	Micah Ryan B. Ramel	First UNP-ISPSC National Education Congress
Honor Awards Program (HAP) Civil Service Commission PAGASA Award	Lovella Gamponia Velasco	Civil Service Commission Date and Venue: Malacañang Palace, September 2019

Regional



TITLE OF AWARD	PROPONENT/S	AWARDING BODY/ DATE & VENUE
<p>1st place Best Paper Award for the Research Category</p> <p>Title of Paper: Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (CRB) on Satsuma Mandarin</p>	<p>Jonar I. Yago, Elmerito T. Irabago, Lori Shayne A. Busa, Jo-Eliz M. Gonzales, Mark Christopher E. Valdez, Jessie I. Yago and Billy Joe N. Llantero</p>	<p>CVAARRD 0th CVAARRD Regional Symposium on Research, Development and Extension Highlights October 23-24,2019 at DA CVRC, San Felipe, Ilagan, Isabela</p>
<p>2nd Best Poster Award</p> <p>Title of Poster: Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (CRB) on Satsuma Mandarin</p>	<p>Jonar I. Yago, Elmerito T. Irabago, Lori Shayne A. Busa, Jo-Eliz M. Gonzales, Mark Christopher E. Valdez, Jessie I. Yago and Billy Joe N. Llantero</p>	<p>CVAARRD 30th CVAARRD Regional Symposium on Research, Development and Extension Highlights October 23-24,2019 at DA CVRC, San Felipe, Ilagan, Isabela</p>
<p>2nd place Best Paper Award for the Development Category</p> <p>Title of Paper: Modeling Quality Planting Materials Production System for Citrus in Nueva Vizcaya</p>	<p>Elbert A. Sana, Gina Leah A. Dizon, Jovelyn M. Guillermo, Joy Lyn Dung-ao , and Fernando M. Nabulneg</p>	<p>CVAARRD 30th CVAARRD Regional Symposium on Research, Development and Extension Highlights October 23-24,2019 at DA CVRC, San Felipe, Ilagan, Isabela</p>

Local

TITLE OF AWARD	PROPONENT/S
LOCAL: 16th University In-House Review of Completed and On-Going RDE Projects October 3-4, 2019	
RESEARCH CATEGORY	
1ST place, Best Paper for Research Category <i>Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (<i>Prays endolemma</i> Diakonoff) on Satsuma Mandarin (<i>Citrus unshui</i>)</i>	Jonar I. Yago, Elmerito T. Irabago, Lori Shayne A. Busa, Jo-Eliz M. Gonzales, Mark Christopher E. Valdez, Jessie I. Yago and Billy Joe N. Llantero
2nd place Best Paper for Research Category <i>Development of KLABS21: A Web-based Trading System of Fruits & Vegetables</i>	Percival B. Labog, Ian Kim P. Seligbon, Ryan Victor P. Bautista
3rd place Best Paper for Research Category <i>CRR4DCV Project 1: Value Chain Analysis of Citrus in Cagayan Valley</i>	Gayon P. Sarmiento
1ST place Best Paper for Development Category <i>Modeling Quality Planting Materials Production System for Citrus in Nueva Vizcaya</i>	Elbert A. Sana, Gina Leah A. Dizon, Jovelyn M. Guillermo, Joy Lyn Dung-ao, and Fernando M. Nabulneg
2nd place Best Paper for Development Category <i>Commercialization of Shiitake Production and Product Development technology in Nueva Vizcaya</i>	Maribel S. Bacena, Flora Joy Garcia, Roel Suriaga, Eric Son Dela Cruz, Senialyn Cacal
3rd place Best Paper for Development Category <i>"Pagadalan ti Mannalon" A DA-LGU Steering and Rowing Approach in Establishing Learning Sites for Farmers in Nueva Vizcaya</i>	Imelda V. Iglesias, Flora Joy B. Garcia, Andres Z. Taguiam
1ST place Best Paper for Higher Education Category <i>Perseverance and Passion in the Teaching Profession: Teachers' Grit, Self-Efficacy, Burnout, and Performance</i>	Fitzgerald L. Fabelico, Bonimar T. Afalla
2nd place Best Paper for Higher Education Category <i>Determinant of Service Quality of Fast Casual Dining Establishment in Nueva Vizcaya</i>	Allen Mark T. Razalan, Rhea L. Adriatico, and Chrizel Pagbilao
3rd place Best Paper for Higher Education Category <i>Extension Services and Outreach Programs of the College of Teacher Education: Basis for Development of Enhancement Plan</i>	Demetria A. Corpuz, Bonimar T. Afalla, Sanny J. Dangis, Gail Gumilet
1ST place Best Paper for Social Sciences Category <i>Lingguwistikong Etnograpiya ng Filipinas sa wikang Isinay</i>	Alvin B. Felix, Sheena Lyn V. Ramos, Gerald F. Lobeban
2nd place Best Paper for Social Sciences Category <i>Mga Inang Kolehiyala: Life Stories of Young Mothers in NVSU</i>	Lorna L. Oligo Ma. Rousselle Jandoc
3rd place Best Paper for Social Sciences Category <i>Lingguwistikong Etnograpiya ng Filipinas sa wikang Gaddang</i>	Joey Villanueva, Denny B. Jamil, Ma. Rousselle G. Jandoc





PAPER/POSTER PRESENTATION



Paper/Poster Presentation

The University continues to commit in promoting exceptional outputs of researches, projects, and studies globally, as marked by the participation of the University researchers in different fora from local to international arena.

University researchers also pursued their researches and presented them to their peers and external evaluators during the 16th University In-House Review of Completed and On-going projects last October. As a result, 70 papers of on-going and completed projects under the Research, Development, Higher Education and Social Sciences were presented.

INTERNATIONAL	NATIONAL	REGIONAL	LOCAL	TOTAL
41	13	6	70	130

International



	Title	Presenter/ Proponents
1ST INTERNATIONAL RESEARCH AND EDUCATION SUMMIT / QUEZON CITY February 24 – 26, 2019		
1.	Enterprise Development Framework of Pineapple Industry in Nueva Vizcaya	Cherrie Prella C. De Guzman
2.	Consumers' Preference Towards Eco-Friendly Re-usable bags: Basis for the Crafting of Promotional Strategies	Renalee V. Valenzuela
3RD INTERNATIONAL CONFERENCE ON EDUCATION, ENGINEERING, RESEARCH, TECHNOLOGY AND SOCIAL SCIENCES / CROWN LEGACY HOTEL, BAGUIO CITY March 2-4, 2019		
3.	Do Teachers' Beliefs Turn to Practice? Relations of Scientific Epistemological Beliefs, Teaching Approaches, Students' Attitude and Achievement in K to 12 Chemistry	Reymund C. Derilo Jennylin B. Carreon
4.	Research Self-Efficacy, Interest, Training Environment and Skills: Towards the Enhancement of Relevant, Responsive and quality Teacher Education Student Researches	Jennylin B. Carreon Reymund C. Derilo
1ST INTERNATIONAL CONGRESS IN INTERDISCIPLINARY RESEARCH / STO. THOMAS HALL April 11-13, 2019		



5.	Sound Discerning Prowess as Impetus to Effective Communication in a Multicultural Classroom	Aurelio S. Polonio
6.	Shiitake Mushroom Farming in the Uplands of Nueva Vizcaya: Balancing Economic and Environmental Outcomes	Maribel S. Bacena, Flora Joy B. Garcia, Roel M. Suriaga, and Andres Z. Taguam
7.	Definition Systems and Verbalism as Stimuli to Sociolinguistic Acumen	Jenifer Raymond R. Tallungan
8.	Effect of Microfinance on Business Operations of Selected Micro and Small Agri-based Enterprises in the Province of Nueva Vizcaya	Flormelyn D. Tumenez
INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY AND SMART MATERIALS.../ MANILA April 18, 2019		
9.	Experimental Investigations on the Heat Transfer Performances of Copper and Aluminum Oxide Nanofluids as Collants in a Central Processing Unit	Mary B. Pasion
3RD INTERNATIONAL CONGRESS IN MULTIDISCIPLINARY RESEARCH (ICMR 2019) / TAGAYTAY CITY April 27-29, 2019		
10.	Personal, Cognitive and Metacognitive Factors of Preservice Teachers' Performance on the College-Based Leaving Examination: Mathematical Models	Reymund C. Derilo
11.	Scientific Attitude "vis-a-avis" Mental Ability as Drivers of Academic Performance	Ruchi Briam James S. Lagitnay
12.	Phytohormone Analysis of Gracilaria sp. Extract and Its Effect on Callus Induction and Rice Seed Germination	Mary Jane Cortez
THE INTERNATIONAL ACADEMIC FORUM CONFERENCE ON EDUCATIONAL RESEARCH & INNOVATION / VIRGINIA TECH, BLACKSBURG, VIRGINIA, USA May 6-8, 2019		
13.	Experiential Learning Courses: Teachers' Standpoints	Bonimar T. Afalla, Bryan Gabatino, Demtria Corpuz, Gail Gumilet
14.	Reinventing the Curriculum: A Realization From the Pedagogical Competence and Scholastic Performance of Preservice Teachers	Fitzgerald Fabelico
15.	Honing Teachers of the Future : The Influence of Instructional Competence of Prospective Teachers' Performance	Bonimar T. Afalla, Fitzgerald Fabelico, Wilhelmina Bullecer
16.	Green Practices and Sustainability Performance of a Logistics Company	Rainier Sam G. Mateo
17.	Barangay Justice System of Bambang, Nueva Vizcaya: Its Level of Efficiency and Problems Encountered	Jean R. Orcales
8TH INTERNATIONAL CONFERENCE ON ADVANCEMENT OF DEVELOPMENT ADMINISTRATION 2019-SOCIAL SCIENCES AND INTERDISCIPLINARY STUDIES/ BANGKOK THAILAND May 23-27, 2019		
18.	Sociocultural Paradigms in the Works of 21st Century Ilocano Writers of Southern Nueva Vizcaya	Girlie F. Salas
19.	Comparative Structural Analysis of News Heads and Leads Using Systematic Functional Linguistics (SFL)	Eva Liza D. Bascibillo
20.	Professional Constructs Correlated with Registry Qualified Applicants (RQA) Assessment: A Mathematical Model	Marvin C. Dallego
21.	Literacy Needs of Elementary Teacher Education Stakeholders: Basis for Extension Framework	Wilhelmina C. Bullecer
22.	Training Needs of Stakeholders of Secondary Teacher Education Department of NVSU-Bambang: Creating Extension Roadmap	Jennifer Raymond R. Tallungan
23.	English Language and Critical Thinking Skills as Requisites to Problem Solving	Shiela Amor S. Olonan
24.	Evidence of Geologic Hazards: Integrating The SHS Core Subjects in an Upland Kalanguya Community	Mercy T. Las Marias

25.	21st Century Skills of Indigenous Students amidst Challenges of ASEAN Integration and Beyond	Carlo F. Vadil
26.	Effectiveness of Student Welfare and Development Programs and Services of NVSU-Southern Campus: Hindsight for Kaizen	Andres Z. Taguam
27.	Undergraduate Research Experiences: Personal and Socio-Contextual Factors of Preservice Teachers' Research Skills	Jennylin B. Carreon
28.	Scientific Epistemological Beliefs, Teaching Approaches, Attitude and Performance in K to 12 Chemistry	Reymund C. Derilo
29.	Secondary school Science Teachers' Pedagogical Convictions and Repercussions in the Teaching-Learning Process and Philippine Basic Science Education Curriculum	Reymund C. Derilo
30.	The Punong Barangays in Southern Nueva Vizcaya	Arcadia Alice T. Ordoñez
THE INTERNATIONAL ACADEMIC FORUM CONFERENCE ON EDUCATIONAL RESEARCH & INNOVATION / VIRGINIA TECH, BLACKSBURG, VIRGINIA, USA May 6-8, 2019		
31.	Classroom Management Approaches and Teaching Effectiveness of Teacher Education Faculty of a State University, Philippines	Bonimar T. Afalla, Fitzgerald Fabelico, Sanny Dangis, Demtria Corpuz, Gail Gumilet
14TH NAKEM 2019 INTERNATIONAL CONFERENCE ON "DIVERSITY AND INCLUSION IN MULTILINGUAL EDUCATION"/ POLYTECHNIC UNIVERSITY OF THE PHILIPPINES, STA. MESA, MANILA June 7-9, 2019		
32.	Implementation, Instructional Practices and Challenges of Mother Tongue-Based Multilingual Education (MTB MLE) in Bambang Nueva Vizcaya	Lovella G. Velasco
33.	The Ilokana: Her Image in the Short Stories of Ilokano Women Writers	Lovella G. Velasco, Gavelias H. Velasco
2ND INTERNATIONAL MULTI-SECTORAL DEVELOPMENT SERVICES AND 4TH NATIONAL MULTI-SECTORAL EXTENSION SERVICES CONVENTION/ TADENA HALL, UNIVERSITY OF NORTHERN PHILIPPINES, VIGAN CITY June 19-21, 2019		
34.	APEC Women as Prime Movers of Inclusive Business	Micah Ryan B. Ramel
35.	Citizen-Led, Citizen-Responsive, Citizen-Owned Governance through Bridging Leadership: The Experience of Two Municipalities in Northern Philippines	Micah Ryan B. Ramel
2ND GENDER AND DEVELOPMENT COMPETITION AND CONFERENCE IN RESEARCH AND EDUCATION (GADCCIRAE 2019)/ CROWN LEGACY HOTEL IN BAGUIO CITY, PHILIPPINES July 22, 2019		
36.	Multi-Perspective Valuation of Gender and Development Highlights in Creative Articles of "KASARIAN"	Jennifer Raymond R. Tallungan
37.	Biogas-Driven Pump-Based Integrated Farming System	Adornado C. Vergara
38.	Interplay of Organizational Development Practices and Organizational Effectiveness of BLGUs of Alfonso Castaneda	Jean R. Orcales
39.	Level of Competencies among Barangay Treasurers in the Local Government Unit of Dupax Del Sur: Its Relationship on Effective Cash Control, Supply and Property Management System	Jean R. Orcales
40.	Empowering Women of Tidang Village through Entrepreneurship on Vegetable Processing and Marketing	Elbert A. Sana, Flora Joy B. Garcia
ASIAN INTELLECT / CLARK, PAMPANGA December 9-11, 2019		
41.	The Effect of Mining Operations in the Lives of the Community of Runruno, Quezon, Nueva Vizcaya	Bernardo R. Balangatan

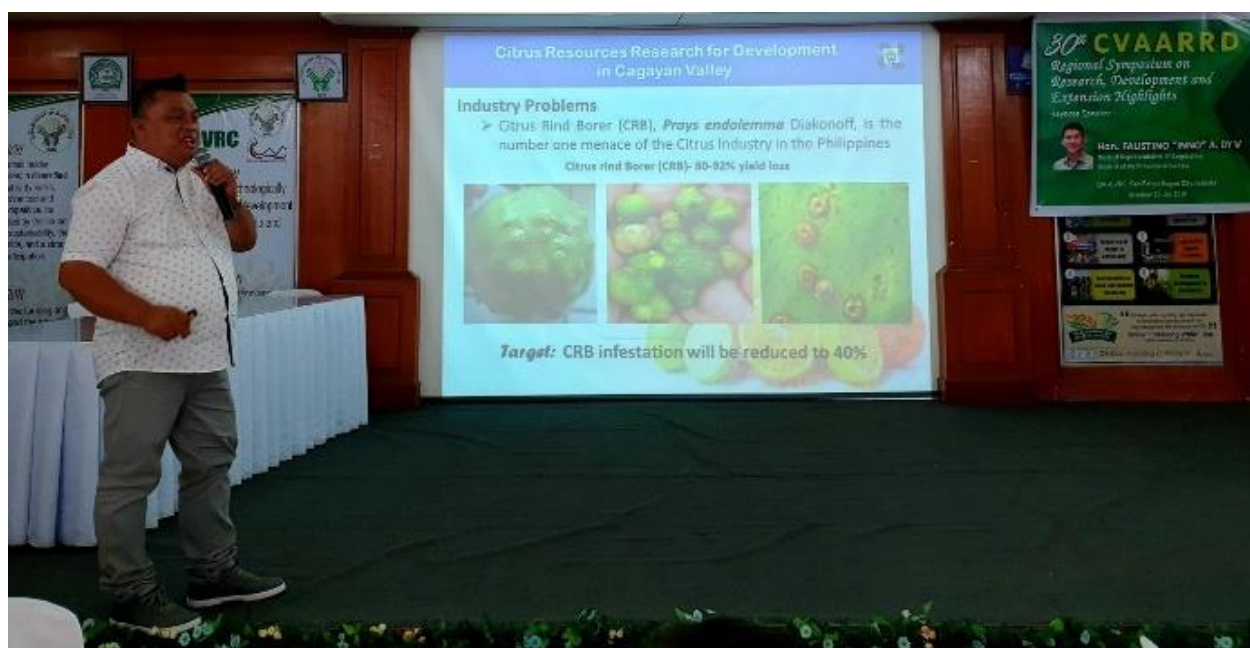


National

No.	TITLE	PRESENTER/PROPONENTS
4TH TOURISM AND HOSPITALITY ANNUAL RESEARCH CONVENTION Quezon City February 20-22, 2019		
1.	Development of Model for Accreditation and Rating System in the Restaurant Industry of the National Capital Region	Joan M. Nebrida
20TH MSP SYMPOSIUM & 6TH ANNUAL ANMICRO CONFERENCE SEARCA, UP, Los Baños, Laguna April 27, 2019		
2.	Species Listing and Mycophagy of Macrofungi found in Barobbob Watershed, Bayombong, Nueva Vizcaya	Daniel Marvin B. Ramel
1ST UNP-SIPSC NATIONAL CONGRESS UNP, Vigan City May 14-16, 2019		
3.	Corporate Social Responsibility at a Catholic University in the Philippines: A Brand Differentiation in the Era of Global Trade and Services	Micah Ryan B. Ramel
2ND UNP-SIPSC NATIONAL CONGRESS UNP, Vigan City May 14-16, 2019		
4.	APEC Women As Prime Movers of Inclusive Business	Micah Ryan B. Ramel
3RD UNP-SIPSC NATIONAL CONGRESS UNP, Vigan City May 14-16, 2019		
5.	Harmonizing Three Systems Towards the Establishment of the NVSU Center for Alternative Education	Micah Ryan B. Ramel
4TH UNP-SIPSC NATIONAL CONGRESS UNP, Vigan City May 14-16, 2019		
6.	Student's Readiness for Online and Distance Education (ODE) at Nueva Vizcaya State University	Micah Ryan B. Ramel
2ND GENDER AND DEVELOPMENT COMPETITION AND CONFERENCE IN RES. AND EDUC. Baguio City May 26-28, 2019		
7.	Women Participation in Upland Farming	Claire R. Reginalde
Oracle Hotel, Quezon City July 19, 2019		
8.	Surveillance of Fasciolosis in Ruminants	Haidee E. Torio Liberty G. Torres
8TH PFEN NATIONAL CONFERENCE & GENERAL ASSEMBLY MEETING Magalang, Pampanga September 17-18, 2019		
9.	Employment Prospects and External Productivity of BS In Environmental Science (BSES) Graduates in Cagayan	Remedios A. Bacon Yolina T. Castaneto, Cecilia A. Mangabat Myrna T. Ramos Marino R.
UP Mindanao / Davao November 13-14, 2019		
10.	VCA Calamansi in R02	Gayon P. Sarmiento
11.	Supply Chain Improvement of Soybeans in Northern Philippines	Gayon P. Sarmiento
Holy Angel University, Angeles City, Pampanga November 15-16, 2019		
12.	The Effect of Mining Operations in the Lives of the Community of Didipio, Kasibu, Nueva Vizcaya	Bernardo R. Balangatan

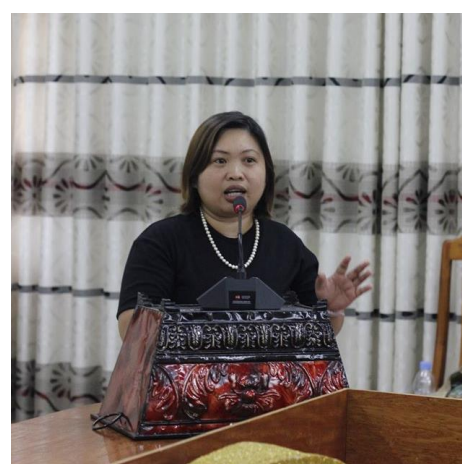


Regional



No.	TITLE	PRESENTER/PROPONENTS
30TH CVAARRD REGIONAL SYMPOSIUM ON RESEARCH, DEVELOPMENT AND EXTENSION HIGHLIGHTS DA CVRC, San Felipe, Ilagan, Isabela October 23-24,2019		
1.	Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (<i>Prays endolemma</i> Diakonoff) on Satsuma Mandarin (<i>Citrus unshui</i>)	Jonar I. Yago, Elmerito T. Irabago, Lori Shayne A. Busa, Jo-Eliz M. Gonzalez, Mark Christopher E. Valdez, Jessie I. Yago, Billy Joe N. Llantero
2.	Development of KLABS21: A Web-based Trading System of Fruits & Vegetables	Percival B. Labog
3.	CRR4DCV Project 1: Value Chain Analysis of Citrus in Cagayan Valley	Gayon P. Sarmiento
4.	Modeling Quality Planting Materials Production System for Citrus in Nueva Vizcaya	Elbert A. Sana, Gina Leah A. Dizon, Jovelyn M. Guillermo, Joy Lyn Dung-ao , and Fernando M. Nabalneg
5.	Commercialization of Shiitake Production and Product Development technology in Nueva Vizcaya	Maribel S. Bacena, Flora Joy Garcia, Roel Suriaga, Eric Son Dela Cruz, Senialyn Cacal
6.	"Pagadalan ti Mannalon" A DA-LGU Steering and Rowing Approach in Establishing Learning Sites for Farmers in Nueva Vizcaya	Imelda V. Iglesias, Flora Joy B. Garcia, Andres Z. Taguiam

Local



No	TITLE	PRESENTER/PROONENTS
NVSU'S 16TH UNIVERSITY IN-HOUSE REVIEW OF COMPLETED AND ON-GOING RDE PROJECTS October 3-4, 2019		
1.	CRR4DCV P1: Value Chain Analysis of Citrus in Cagayan Valley	Gayon P. Sarmiento
2.	Supply Chain Improvement of Soybean in Northern Philippines (Phase I: Evaluation Research)	Gayon P. Sarmiento, Roel M. Suriaga and Aleksis P. Sarmiento
3.	Homogenizing Nutritional Requirements of Livestock Through the Development of a Transportable Livestock Feed Mixer	Fitzgerald L. Fabelico and Willy C. Duldulao
4.	Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs P1: Organized Breeding and Selection for the Establishment of Breeding True to Type Native Pig Population in the CAR, Cagayan Valley, Calabarzon, and Mimaropa Regions	Dorothy P. Pagbilao, Rembert G. Gapad, and Joel Kayvin S. Petipit
5.	Optimizing the Comminution Properties and Particle Size Characterization of Biomass and Grain Legumes through the Development of a Diesel-Powered Hammer Mill	Fitzgerald L. Fabelico and Willy C. Duldulao
6.	Rapid Market Appraisal of Selected Agrarian Refrom Communities (ARCs) Cluster in Nueva Vizcaya	Cristina R. Salvosa, Rachel Hope R. Tiongson, and Daren Erana
7.	Development of a Compact Biomass Shredder: Its Efficacy in Recycling Agricultural Crop Residues	Fitzgerald L. Fabelico and Willy C. Duldulao
8.	Assessing the Governance Performance of Villaverde LGU: Using the Citizen Satisfaction Index System	Cristina R. Salvosa, Dolores B. Galvez, Josue A. Chua, Mary Hazel Joy C. Ugot, and Mercy Pumihic
9.	Harnessing Entomopathogenic Fungi for the Control of Citrus Rind Borer (<i>Prays endolemma</i> Diakonoff) on Satsuma Mandarin (<i>Citrus unshiu</i>)	Jonar I. Yago, Elmerito T. Irabagon, Lori Shayne A. Busa, Jo-Eliz m. Gonzales, Mark Christopher E. Valdez, Jessie I. Yago, and Billy Joe N. Lantero
10.	Development of KLABS21: A Web-based Trading System of Fruits & Vegetables (BAMBANG)	Percival B. Labog, Ian Kim P. Seligbon, And Ryan Victor P. Bautista
11.	Support Surveillance of Fasciolosis in Ruminants (Cattle, Carabao and Goats) in the Provinces of Region II	Liberty G. Torres and Haidee E. Torio, and Mark John S. Beltran



12.	Turmeric Ginger with Ginger Bits: An Artisanal Ice Cream	Evangeline C. Remolazo, Marites M. Fronda, Joan M. Nebrida, Michelle A. Abalos, Marvin Jay A. Tagnong, and Ermelinda P. Depayso
13.	Development of microfluidic paper-based analytical devices (μ PADs) for the detection of Diarrhea-causing pathogens in water	Lori Shayne A. Busa, Gina Leah A. Dizon, Daniel Marvin Ramel, Jose Comia, Reymund Derilo, Kathleen Martin, Erlyn Jane Garcia, Kristine Jane de Leon, Lorna Dumale, and Jenifer Galamay
14.	CRR4DCV P5: Development and Verification of Soil and Water Management Strategies for Citrus Production	Wilfredo A. Dumale, Jr., Jessie Pascual P. Bitog, Marnellie L. Pini, Roval D. Butac, and Jerwin D. Osdon
15.	Field Testing, Pilot Scale Production and Market Study of Locally-Developed bioinsecticide for Eggplant	Ferdinand B. Arcala
16.	Spatial Information Support for Field Laboratory for Courses in Forestry and Allied Curricular Programs Study Title: Methodologies of image analysis-based leaf area measurement	Arvin P. Vallesteros, Shierel F. Vallesteros, Marlon U. Saludarez, Heidi A. De Guzman, and Erick Jhay C. Maestre
17.	Substrate Formulations for African night crawler (<i>Eudrilus eugeniae</i>) Enhanced with <i>Ipomoea aquatic</i>	Yolina T. Castañeto, Elmer T. Castañeto, and Rogelio P. Pascua
18.	Alternative Propagation Techniques for Indigenous Forest Trees: Clonal Propagation of Indigenous Tree Species Using Stem Cuttings	Yolina T. Castañeto and Elmer T. Castañeto
19.	Philippine Isolates of Entomopathogenic Fungi as Potential Source of Microbial Agents Citrus Rind Borer (CRB) and Twig Blight Disease (TBD) of Citrus	Jonar I. Yago, Lori Shayne A. Busa, Melvin R. Cuban, Jo-Eliz M. Gonzales, Samboy G. Gilo and Alvin V. Galamay
20.	Development and Performance Evaluation of a Portable Essential Oil Extractor	Fitzgerald L. Fabelico and Frankie M. Ramos
21.	Efficacy Evaluation of Biopesticides Derived from Entomopathogenic Fungi (EPF) Against Rind Borer and Twig Blight Disease (TBD) of Citrus	Jonar I. Yago
22.	Agritourism Management Practices in Nueva Vizcaya, Philippines	Evangeline C. Remolazo
23.	Pagadalan ti Mannelon: A DA-SUC-LGU "Steering and Rowing" Approach in Establishing Learning Sites for Farmers in Nueva Vizcaya	Imelda V. Iglesias, Flora Joy B. Garcia, and Andres Z. Taguiam
24.	Commercialization of Shiitake Production and Product Development technology in Nueva Vizcaya	Maribel S. Bacena, Flora Joy B. Garcia, Roel M. Suriaga, Eric Son R. Dela Cruz, and Senialyn D. Cacal
25.	Kitang-Kitang Kabuhayan sa Barangay at Paaralan: CTE Extension Program	Demetria A. Corpuz
26.	Modeling Quality Planting Materials Production System for Citrus in Nueva Vizcaya	Elbert A. Sana, Gina Leah A. Dizon, Jovelyn M. Guillermo, Joy Lyn Dung-ao and Fernando M. Nabulneg
27.	Enhancing the Intellectual Property and Technology Business Management (IP-TBM) Operations of the Nueva Vizcaya State University	Blesila R. Ramos, Josue A. Chua, and Jeremy V. Dasalla



28.	Pagadalan iti Barangay: A Unified Open College towards an Interdisciplinary Approach in Research and Extension Continuum	Blesila R. Ramos and Edwin P. Ramos
29.	Capacitating Farmers on Integrated Pest Management and Entrepreneurship for Sustainable Rural Development: Empowering Women of Tidang Village through Entrepreneurship on Vegetable Processing and Marketing	Elbert A. Sana, Fredisminda M. Dolojan, and Flora Joy B. Garcia
30.	Karunungan, Kakayahan at Kabuhayan para sa mga Mag-aaral at Mamamayan	Demetria A. Corpuz and Ronnie F. Castañeda
31.	Project MASOC: Movement for an Active, Stable, and Organized Community	Gerald F. Lobeban et al.
32.	Empowering Communities through Development and Livelihood Project	Florie Jean C. Vicente et al.
33.	Establishment of Agroforestry Demonstration Farm cum Implementation of Livelihood Projects	Susana C. Osingat et al.
34.	Beterinaryo sa Baryo Extension Program	Melvin O. Allama et al
35.	Financial Literacy and Social Entrepreneurship	Josue A. Chua et al.
36.	Technical Services and Values Formation for the Barobbob Watershed Occupant	Micah Ryan B. Ramel
37.	Skills Training: “Teknikal na Kaalaman, Kahusayan para sa Kabuhayan	Marife A. Aliaga, Rogelio A. Abalos, Jr. et al.
38.	The Functional Literacy Program P1: Munting Paaralan: Habang Buhay na Kaalaman P2: Tulong, Dunong, Sulong P3: Skills Training on Meat Processing and T-shirt Printing	Hana Gay D. Mejia et al.
39.	Program COL 3	Evelyn R. Layno et al.
40.	“Handog Kaalaman at Serbisyong Pangteknikal”: Training-Workshop on Basic Electricity, Basic Electronics System, Computer Literacy and Shop & Industrial Processes	Jane P. Agbanlog et al.
41.	Vermicompost Production and Technology Dissemination	Elmer T. Castañeto, Rogelio P. Pascua, and Jovien L. Ansibey
42.	Establishment of Demonstration Farm in the College of Agriculture	Blesila R. Ramos et al
43.	Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub”	Cristina R. Salvosa, Wilfredo A. Dumale, and Sheena Lyn V. Ramos
44.	Anaerobic Digestion: Energy Generation and Utilization for Increased Swine Productivity	Sony P. Aquino et al.
45.	Why awareness matters? An Evaluation of Student Services and Facilities Study 1: Awareness and Evaluation of Student Services Study 2: Awareness and Evaluation of Student Facilities	Dolores B. Galvez, Mercedes B. Pumihic, and Ma. Elizabeth B. Espiritu
46.	Licensure Performance, Study Habits and Challenges Encountered by Nueva Vizcaya State University Teacher Education Graduates	Demetria A. Corpuz, Bonimar T. Afalla, and Gail G. Gumilet
47.	Extension Services and Outreach Programs of the College of Teacher Education: Basis for Development of Enhancement Plan	Demetria A. Corpuz, Bonimar T. Afalla, and Sanny J. Dangis
48.	Millennial’s Learning Style: Towards Matching Teachers’ Teaching Style	Sanny J. Dangis, Bonimar T. Afalla, Gail G. Gumilet, Demetria A. Corpuz, Jeronimo De Jesus, Cherry Ann P. Navalta, and Orville D. Hombrebueno



49.	Assessment Practices in Paper-and Pencil Tests among Faculty Members in a Higher Education Institution	Juanita B. Pascua, Jane D. Navalta, and Cherry Ann P. Navalta
50.	Profile and Competence of Alternative Learning System Completer's in Tertiary Education	Josefina S. Sana, Jane D. Navalta, Juanita B. Pascua, Cherry Ann P. Navalta, Jay-ar A. Castriciones, and Vilchor G. Perdido
51.	Scientific Literacy and Inquiry in the 21st Century Among the Biology Majors at a State University in Southern Nueva Vizcaya	Noel C. Cardona, Jr. and Mary Gay T. Aguila
52.	Determinant of Service Quality of Fast Casual Dining Establishment in Nueva Vizcaya	Allen Mark T. Razalan, Rhea L. Adriatico, and Chrizel Pagbilao
53.	Fiscal Administrative Practices and Competencies of Municipal Local Fiscal Administrators: The Case of MLGU-Bambang, Nueva Vizcaya	Arcadia Alice T. Ordonez
54.	Perseverance and Passion in the Teaching Profession: Teachers' Grit, Self-Efficacy, Burnout, and Performance	Fitzgerald L. Fabelico and Bonimar T. Afalla
55.	Compliance to the Code of Ethics for Professional Teachers among Faculty Members	Juanita B. Pascua and Jane D. Navalta
56.	Employment, Learning Experiences and Job Perspectives Among BS Biology Graduates SY 2014-2018	Mercy Las T. Marias and Noel C. Cardona, Jr.
57.	Formulation of Standard Operational Instruction Process for Board Secretaries	June Grace C. Domingo
58.	Linguwistikong Etnograpiya ng Filipinas sa wikang Gaddang	Joey Villanueva, Denny B. Jamil, and Ma. Rousselle G. Jandoc
59.	Linguwistikong Etnograpiya ng Filipinas sa wikang Isinay	Alvin B. Felix, Gerald F. Lobeban, and Sheena Lyn V. Ramos
60.	Mga Inang Kolehiyala: Life Stories of Young Mothers in NVSU	Lorna L. Oligo and Ma. Rousselle Jandoc
61.	Bolwa: The Meat Sharing Tradition Of Ifugao	Romana P. Dulnuan
62.	Gender Responsiveness of Guidance and Counseling Centers Phase I	Maria Rousselle G. Jandoc and Ms. Lorna L. Oligo
63.	Leadership Behavior of the Sangguniang Kabataan Officials in Kasibu, Nueva Vizcaya : Its Relationship to Attitude Towards Work	Arcadia Alice T. Ordonez
64.	Lived Experiences of Men and Women Contractual Employees: A Hermeneutic Phenomenological Analysis	Albert Garcia, Gerald F. Lobeban, and Maria Rousselle G. Jandoc
65.	Flowing Down Magat River: The Story Of Five Tributaries	Joan A. Pinon
66.	Rama': A Locally-Based Practice In A Philippine Fishing Community	Fermila R. Cauilan
67.	Cultural Mapping Of Ethnographic Objects: Processes, Complexities And Trajectories	Mild R. Hombrebueno and Ma. Rouselle Jandoc
68.	Revisiting Cultural Transition: Mapping Of Significant Religious Artifacts In Bayombong, Nueva Vizcaya, Philippines	Elson Boie Tumaneng and Romana P. Dulnuan
69.	Caught In The Middle: Doing Research With Indigenous Cultural Communities And The Government	Lorna L. Oligo
70.	Flora And The Ifugao World Of Rituals And Traditions	Joseph Bubod and Romana P. Dulnuan



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No.	TITLE	AUTHOR	VOL./ISSUE NO./ISBN	DATE OF PUBLICATION	PUBLISHER	LEVEL
1.	First Language Component - Bridging Program (FLC-BP): A Promising Approach Facilitating Students' Performance in Reading and Writing Skills adopting Mother Tongue Based - Multilingual Education (MTB-MLE) Curriculum	Filemon A. Pamittan	Volume 21, Issue 2.2	March 2019	Asian EFL Journal Research Articles	International
2.	Problem-Based Learning Approach Enhances the Problem Solving Skills in Chemistry of High School Students	Joseph E. Valdez Melfei E. Bungihan	JOTSE, 2019- 9(3):282- 294 Online ISSN: 2013-6374 - Print ISSN:2014 -5349	March 2019	Journal of Technology and Science Education	International
3.	Basic and Integrated Science Process Skills Acquisition and Science Achievement of Seventh-Grade Learners	Reymund C. Derilo	Volume 6, Issue 1	2019	European Journal of Education Studies	International
4.	Cytotoxic And Genotoxic Properties Of Saraisa (Muntingia Calabura) Bark Extract	Apple Grace C. Garingo, Anabelle P. Maumay, Grace W. Dango, Reymund C. Derilo, Joemar D. Subong	Volume 3 Issue 5 ISSN:2456 -9992	May 2019	International Journal of Advanced Research and Publications	International
5.	Personal, Cognitive and Metacognitive Factors of Preservice Teachers' Performance in the College-Based Leaving Examination: Mathematical Models	Reymund C. Derilo	Vol. 5, No. 4 ISSN 2520-0968 (Online), ISSN 2409-1294 (Print)	June 2019	International Journal of Social Sciences & Educational Studies	International
6.	The Price and Cost Structure of the Pineapple Industry in Nueva Vizcaya Philippines	Chery Cabading Lacaden	Vol. 8, Supplementary Issue 3 ISSN: 2304-1013 (Online); 2304-1269 (CDROM); 2414-6722 (Print)	2019	Review of Integrative Business and Economics Research	International
7.	Autonomous Learning, Metacognitive Awareness and Science Academic Achievement of Pre-Service Teachers	FreaMea G. Pudiquet, Melody C. Balualua, Catherine G. Tumacder, Lyra	Vol. 6; Issue 5 E-ISSN: 2349-	May 2019	International Journal of Research & Review	International



		T. Matulay, Reymund C. Derilo	9788; P- ISSN			
8.	Marketing Channel of Pineapple in Isabela, Philippines	Dolores B. Galvez	Volume 6, Issue 2 ISSN 2148-6670	2019	Journal of Management, Marketing and Logistics	International
9.	Internal and External Locus-of-Hope Dimensions as Predictors of Subjective Well-being among Filipino College Students	Jacqueline V. Iglesias, Voltaire M. Marquez	Vol. 21, No. 1 ISSN 1655-1702	January 2019	Philippine Journal of Counseling Psychology	National
10.	Screening, identification and antimicrobial activity of mycoparasitic fungus (<i>Aspergillus</i> sp.) from Philippine Aglibut Sweet Tamarind	Crisanto A. Miclat, Jr., Rosalie R. Rafael, Jonar Yago, Jacqueline V. Bagunu	Volume 14, Number 1 ISSN: P2220- 6655 E2222- 5234	2019	International Journal Of Biosciences (IJB)	International
11.	Technical Efficiency and Social Capital in Tilapia Aquaculture Production in Nueva Vizcaya, Philippines	Jandoc, Aljanet M; Habito, Cielito F.	Volume 16, No. 2 ISSN: 1656-4383	December 2019	Asian Journal of Agriculture and Development	International
12.	Life Career Skills among Scholars of Poverty Alleviation Program in Nueva Vizcaya State University – Bambang Campus	Girlie F. Salas Eva Liza D. Basconillo	Vol. 5, No.2 ISSN 2546-0110	2019	Global Research Journal	International
13.	Sociocultural Paradigms in the Works of 21st Century Ilocano Writers of Southern Nueva Vizcaya	Jenifer Raymond R. Tallungan Girlie F. Salas	Vol. 5, No.2 ISSN 2546-0110	2019	Global Research Journal	International
14.	Multi-Perspective Valuation of Gender and Development Highlights in Creative Articles of “Kasarian”	Jenifer Raymond R. Tallungan, Girlie F. Salas	Vol. 5, No.2 ISSN 2546-0110	2019	Global Research Journal	International
15.	Non-cognitive Attributes as Conduit to Improved Academic Performance	Jennifer Raymond R. Tallungan, Shiela Amor S. Olanan, Marita F. Bancual, Mercy T. Las Marias	Vol. 5, No.2 ISSN 2546-0110	2019	Global Research Journal	International
16.	English Language and Critical Thinking Skills as Requisites to Problem Solving in a Socio-Culturally Diverse Mathematics Learning Community	Jenifer Raymond R. Tallungan, Sheila Amor S. Olanan	Vol. 5, No.2 ISSN 2546-0110	2019	Global Research Journal	International
17.	Psychosocial Constructs Affecting Proficiency in Mathematics among Grade 12 Students of Secondary School of Dupax del Norte	Sheila Amor S. Olanan, Jenifer Raymond R. Tallungan	Vol. 5, No.2 ISSN 2546-0110	2019	Global Research Journal	International





INTELLECTUAL PROPERTY
OFFICE OF THE PHILIPPINES

BUREAU OF PATENTS

REGISTRATION NO. 2-2017

and with the provisions law and regulations, this Office

UTILITY MODEL

and claim/s of which as hereunto annexed are

PROTECTION grants unto the applicant/s or assign/s the
rights to make, use, sell or import the utility model,
from the date of filing, unless sooner terminated or
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IN WITNESS WHEREOF
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hereunto affixed my hand
and seal of the Intellectual Property Office
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Director of Patents

This **REGISTRATION** grants
throughout the Philippines to make,
SEVEN (7) YEARS from the date
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PATENTS



LIST OF INTELLECTUAL PROPERTY ASSETS FOR 2019				
No.	INVENTION	INVENTOR/RESEARCHER	REGISTRATION NO.	STATUS
UTILITY MODELS				
1.	A Process for Making Shelf Stable Citrus Fruit Leather	Perlita. C. Tiburcio	2-2017 000796	Issued Certificate
2.	A Process for Producing Conserve with Mandarin Pomace and Rind	Perlita. C. Tiburcio	2-2017 000799	Issued Certificate
3.	A Process of Producing Carrot-Citrus Juice	Perlita. C. Tiburcio	2-2017 000798	Issued Certificate
4.	A Process Producing Citrus-Tomato Juice	Perlita. C. Tiburcio	2-2017 000 797	Issued Certificate
5.	A Composition of Ginger-Turmeric Wine	Gina Leah. A. Dizon	2-2018 001231	Issued Certificate
6.	A Process of Making Ginger-Turmeric Wine	Gina Leah. A. Dizon	2-2018 001234	Issued Certificate
7.	Method of Testing the Effects of Gamma-Irradiated Carrageenan water Supplement on Poultry	Vernadyn A. Morillo, Rafael Lluís F. Morillo and Andres Z. Taguiam	2-2018 050477	Published/ 2019.10.02
8.	Growth Media for Beauveria Bassiana Colonies and Biomass	Lori Shayne Busa, Jim Andrews Mangahas, Ferdinand Aracala, Jonar I. Yago, J. Gonzales and Ermelito Irabagon	2-2018 050507	Published/ 2019.11.22
9.	A Process of Producing Tomato Powder from the Diamante Cultivar of Lycopersicon Esculentum	Marites M. Fronza and Patricia B. Madero	2-2018 050516	Published/ 2019.05.31
10.	Round Cake Icing Spreader	Leonardo R. Fronza	2-2017-000860	Issued Certificate
11.	Corn Cob Remover		2-2018-001232	On-going
INDUSTRIAL DESIGNS				
12.	Groundwater Recharge Structure	Sony P. Aquino, Geraldine J. Paguidan, Raphy A. Sugue and June C. Quipo	3-2018-001280	Issued Certificate
13.	Groundwater Recharge Structure	Sony P. Aquino, Junel B. Soriano, June C. Quipo and Jackson B. Ramos	3-2018-001281	Issued Certificate
14.	Biogas Digester	Sony P. Aquino	32018000868	Issued Certificate
15.	Doormat Weaver	Judy M. Directo, Bernardo R. Balangatan	32019000604	Issued Certificate
16.	Multi-Fruit Harvesting and Pruning Device	Eddie C. Tampoya, Emmanuel C. Reyes, Angelito Agrimor and Sony P. Aquino	3-2019-000508	Published/ 2019.05.31



17.	Biomass Stove	Eddie C. Tampoya Jeronimo L. De Jesus, Sony P. Aquino, Bernardo R. Balangatan, June Quipo and R. Quipo	3-2019-000509	Published/ 2019.05.31
18.	Multi-gas Stove	R. Quipo, Jeronimo L. De Jesus, Sony P. Aquino, Eddie C. Tampoya, Bernardo Balangatan and June Quipo	3-2019-000510	Published/ 2019.05.31
19.	Groundwater Recharge Structure	Angelito D. Agrimor, Sony P. Aquino and Jackson B. Ramos	3-2019-000512	Published/ 2019.12.11
20.	Charcoal Bricketter	Bernardo Balangatan, Eddie C. Tampoya, Jeronimo L. De Jesus	3-2019-050088	Published/ 2019.10.16
21.	Liquid-Smoke Extractor	Bernardo Balangatan, Jeronimo L. De Jesus and E. Tampoya	3-2019-050089	Published/ 2019.10.16
22.	Liquid-Smoke Burner	Jeronimo L. De Jesus, Bernardo Balangatan and Eddie C. Tampoya	3-2019-050090	Published/ 2019.10.16
23.	Multi-purpose Bank Bed		32019000603	Published
24.	Shredder Machine	Jeronimo L. De Jesus, Eddie C. Tampoya, Bernardo R. Balangatan	32019000605	Published/ 2019.11.08
25.	Rotary Cutter-Blade for Shredder Machine	Jeronimo L. De Jesus, Eddie C. Tampoya, Bernardo R. Balangatan	32019000606	Published/ 2019.11.11
26.	Multi-purpose Picnic Table Set with Chess Boards		32019000607	Published/ 2019.10.25
27.	Multi-purpose Chess Table	Bernardo R. Balangatan	32019000608	Published/ 2019.10.25
28.	Picnic Bench		32019000609	Published/ 2019.10.25
29.	Mechanical Grain/Seeds Collecting and Bagging Machine		32019001153	On-going
PATENT				
30.	Gamma-Irradiated Carrageenan Water Supplementation for Poultry and the Method of Preparation Therefor	Vernadyn A. Morillo, Rafael Lluis F. Morillo and Andres Z. Taguiam	1-2018-050511	Published/ 2019.11.18
31.	Biogas Digester	Sony P. Aquino	1-2018-000257	On-going
32.	Groundwater Recharge Structure		1-2018-000461	On-going



CITATIONS

There were a total of 62 citations from the 11 scholarly published research articles of the University.

1. Title of Research Output: The SLT2 Mitogen-Activated Protein Kinase-Mediated Signalling Pathway Governs Conidiation, Morphogenesis, Fungal Virulence and Production of Toxin and Melanin in the Tangerine Pathotype of *Alternaria Alternate*

Authors: JI Yago, CH Lin, KR Chung

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Jingyi Ren, et al	Deletion of FgHOG1 Is Suppressive to the mgv1 Mutant by Stimulating Gpmk1 Activation and Avoiding Intracellular Turgor Elevation in <i>Fusarium graminearum</i>	Frontiers in Microbiology	Vol. 10 / Art. 1073	Frontiers
Li-Na Yang, et al	Cross-resistance of the pathogenic fungus <i>Alternaria alternata</i> to fungicides with different modes of action	BMC Microbiology	Vol. 19 / Issue No. 205	SpringerLink
Cynthia L. Chelius, et al	Phosphoproteomic and transcriptomic analyses reveal multiple functions for <i>Aspergillus nidulans</i> MpkA independent of cell wall stress	Fungal Genetics and Biology	Vol. 125 / Pages 1-12	ELSEVIER

2. Title of Research Output: Application of Computational Fluid Dynamics for Modeling and Designing Photobioreactors for Microalgae Production: A Review

Authors: JP Bitog, I -B Lee, C -G Lee, K -S Kim, H -S Hwang, S -W Hong, I -H Seo, K -S Kwona, E Mostafa

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
M. Grubišić, et al	Potential of Microalgae for the Production of Different Biotechnological Products	Chemical and Biochemical Engineering Quarterly	Vol. 33, No. 2	hrcak
Funda Öztürk Kerestecioglu, Yunus Turan Pekmezci	Defining the Problems of Integrated Algae Photobioreactor Systems to Architecture	International Journal of Engineering Science and Application	Volume 3 , No. 2, Pages 52 - 70	DergiPark
García Serrano, Joan	Microalgae in aquaculture wastewater : a new forecasting method of production in a marine system	N/A	N/A	UPCommons



Juan Pablo Díaz, et al	Fibonacci-type tubular photobioreactor for the production of microalgae	Process Biochemistry	Vol. 86, Pages 1-8	ELSEVIER
Maria Crespo, et al	Shape optimization of spatial chemostat models	N/A	N/A	HAL
Abhineet Gupta	Transport and hydrodynamic stresses in turbulent flows with application to photobioreactors	N/A	N/A	Eindhoven University of Technology
Valeria Andreotti, et al	Growth of <i>Tetraselmis suecica</i> and <i>Dunaliella tertiolecta</i> in Aquaculture Wastewater: Numerical Simulation with the BIO_ALGAE Model	Water, Air, & Soil Pollution	Vol. 230, No. 60	Springer Link
Ming-Jia Li, et al	A numerical model coupling bubble flow, light transfer, cell motion and growth kinetics for real timescale microalgae cultivation and its applications in flat plate photobioreactors	Algal Research	Vol. 44	ELSEVIER
Yağmur Sünger	A Study on the Utilization of Microalgae for Producing Light and Biofuel in the Built Environment		N/A	Middle East Technical University
Camila Larissa Hinterholz, et al	Computational fluid dynamics applied for the improvement of a flat-plate photobioreactor towards high-density microalgae cultures	Biochemical Engineering Journal	Vol. 151	ELSEVIER
Jun Cheng, et al	Numerical simulation on optimizing flow field and flashing-light effect in jet-aerated tangential swirling-flow plate photobioreactor to improve microalgal growth	Chemical Engineering Science	N/A	ELSEVIER
Agbebi, TV	Design and characterization of a miniature photobioreactor for microalgae culture	N/A	N/A	UCL Discovery
Kokkinos, Dimitrios	Investigation of Cell Rupture and Viability Loss in Different Hydrodynamic Setups	N/A	N/A	mediaTUM
Timm Steffen Severin, et al	Validated numerical fluid simulation of a thin-layer cascade photobioreactor in OpenFOAM	Engineering in Life Science	Vol. 19, No. 2, Pages 97-103	WILEY
Jonas Laerte Ansoni, et al	Multiobjective optimization of a flat-panel airlift reactor designed by computational fluid dynamics	Chemical Engineering Science	Vol. 195, Pages 946-957	ELSEVIER
Tao Zhang, et al	Advances in characteristics analysis, measurement methods and modelling of flow dynamics in airlift reactors	Chemical Engineering and Processing - Process Intensification	Vol. 144	ELSEVIER
Jingwei Fu, Yun Huang, Qiang Liao, Ao Xia, Qian Fu, Xun Zhu	Photo-bioreactor design for microalgae: A review from the aspect of CO ₂ transfer and conversion	Bioresource Technology	Vol. 292	ELSEVIER
Bovinille Anye Cho, et al	The development of a thermosiphon photobioreactor and analysis using Computational Fluid Dynamics (CFD)	Chemical Engineering Journal	Vol. 363, Pages 141-154	ELSEVIER
Adriana Gaona, et al	Enhancing biomass hydrolysis for biofuel production through hydrodynamic modeling and reactor design	Energy Science and Engineering	Vol. 7, No. 5, Pages 1823-1837	WILEY



M. Barceló-Villalobos, et al	Evaluation of photosynthetic light integration by microalgae in a pilot-scale raceway reactor	Bioresource Technology	Vol. 280, Pages 404-411	ESLEVIER
Ehecatl Antonio del Rio-Chanona, et al	Deep learning-based surrogate modeling and optimization for microalgal biofuel production and photobioreactor design	Process Systems Engineering	Vol. 65, No. 3, Pages 915-923	AIChE Journal
Victor Okoro, Ulugbek Azimov, et al	Microalgae cultivation and harvesting: Growth performance and use of flocculants - A review	Renewable and Sustainable Energy Reviews	Vol. 115	ELSEVIER
Tsipi Shoham, Benjamin Shoham	Systems and methods for cultivating and distributing aquatic organisms	N/A	N/A	Google Patents
Björn Andersson, et al	The Fluctuating Cell-Specific Light Environment and Its Effects on Cyanobacterial Physiology	Plant Physiology	Vol. 181, Pages 547-564	ASBP
Fabiano Bisinella Scheufele, et al	Complex mathematical analysis of photobioreactor system	Special Issue: Plant Cells and Algae in Bioreactors	Vol. 9, No. 12, Pages 844-859	WILEY
Tsipi Shoham, Benjamin Shoham	Compact apparatus for continuous production of a product substance from a starter material grown in aquaculture conditions	N/A	N/A	Google Patents
Hoang Nhat Phong Vo, et al	A critical review on designs and applications of microalgae-based photobioreactors for pollutants treatment	Science of The Total Environment	Vol. 651, Part 1, pages 1549-1568	ELSEVIER

3. Title of Research Output: Numerical Simulation of an Array of Fences in Saemangeum Reclaimed Land

Authors: JP Bitog, IB Lee, HS Hwang, MH Shin, SW, Hong, IS Seo, KS Kwon, E Mostafa, Z Pang

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Vahid Sarafrazi & Mohammad Reza Talaei	Numerical simulation of sand transfer in wind storm using the Eulerian-Lagrangian two-phase flow model	The European Physical Journal E	Vol. 42, No. 45	Springer Link
Seyed Arman Hashemi Monfared, et al	Using Windbreaks for Decreasing Lake and Reservoir Evaporation: A Case Study from Iran	Polish Journal of Environmental Studies	Vol. 28, No. 4, Pages 2289-2298	PJOES



4. Title of Research Output: Numerical Prediction of Fugitive Dust dispersion Reclaimed Land in Korea

Authors: IH Seo, IB Lee, MH Shin, GY Yee, HS Hwang, SW Hong, JP Bitog, JI Yoo, KS Kwon, YH Kim, T Bartzanas

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Amy La and Qiang Zhang	Experimental validation of CFD simulations of bioaerosol movement in a mechanically ventilated airspace	Canadian Biosystems Engineering	Vol. 61	CSBE-SCGAB

5. Title of Research Output: A Wind Tunnel Study on Aerodynamic Porosity and Wind Break Drag

Authors: Bitog P.J. P. Bitog, I.-B. Lee, H.-S. Hwang, M.-H. Shin, S.-W. Hong, I.-H. Seo, E. Mostafa & Z. Panga

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
González-Martínez, et al	Determinación de propiedades aerodinámicas de la jabalina mediante dinámica de fluidos computacional	RICYDE. Revista Internacional de Ciencias del Deporte	Vol. 15, No. 56, Pages 137-153	EBSCO
David Chukwuebuk a Bassey, Minnesota State University, Mankato	Employing 2-D CFD & LRB Model Around Trees to Improve VAWT Placement	N/A	N/A	Cornerstone
Seyed Arman Hashemi Monfared, et al	Using Windbreaks for Decreasing Lake and Reservoir Evaporation: A Case Study from Iran	Polish Journal of Environmental Studies	Vol. 28, No. 4, Pages 2289-2298	PJOES
González-Martínez, Alfredo; et al	Determinación de propiedades aerodinámicas de la jabalina mediante dinámica de fluidos computacional. [Determination of aerodynamic properties of javelin by means of computational fluid dynamics].	RICYDE. Revista Internacional de Ciencias del Deporte	Vol. 15, No. 56	Dialnet
Jung-Tai Lee, et al	Wind affects the growth, root anchorage and tensile strength of Australian pine (<i>Casuarina equisetifolia</i>) seedlings	Silviculture and Plant Sciences	Vol. 24, No. 4, Pages 219-229	Taylor & Francis
Lento Manickathan, et al	Unveiling dynamic changes in the diurnal microclimate of a <i>Buxus sempervirens</i> with non-intrusive imaging of flow field, leaf temperature, and plant microstructure	N/A	N/A	Cornell University Library



Maximilian Langheinrich, Katja Seifert	An Advanced Workflow for Simulating High Resolution Wind Fields Over Complex Urban Terrain Including Single Tree Objects	N/A	N/A	IEEE
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6. Title of Research Output: The Past, Present and Future of CFD for Agro-Environmental Applications

Authors: IB Lee, JP Bitog, SW Hong, IW Seo, KS Won, T Bartazama, M. Kacira

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Jülide Erkmen	Utilization of Waste Heat And CO2 In Greenhouses Integrated Into Biogas-To-Electricity Systems That Use Agricultural Wastes: An Integrated Model Approach- A Review	Journal of Environment	Vol. 3, No. 1	SCIREA
Andrea Dernbecher, et al	Review on modelling approaches based on computational fluid dynamics for biomass combustion systems	Biomass Conversion and Biorefinery	Vol. 9, No. 1, Pages 129–182	Springer Link
Xinjie Tong, et al	CFD modeling of airflow, thermal environment, and ammonia concentration distribution in a commercial manure-belt layer house with mixed ventilation systems	Computers and Electronics in Agriculture	Vol. 162, Pages 281-299	ELSEVIER
Wenhan Zheng, et al	Development of a liquid-jet nozzle for fertilizer injection in paddy fields using CFD	Computers and Electronics in Agriculture	Vol. 167	ELSEVIER
Fanghui Pan, et al	Comparison of pollution diffusion between river mouth inflow (RMI) and beach uniform inflow (BUI) in sudden water accident	Water and Environment Journal	Vol. 33, No. 1	WILEY
Uk-Hyeon Yeo, et al	Computational fluid dynamics evaluation of pig house ventilation systems for improving the internal rearing environment	Biosystems Engineering	Vol. 186, Pages 259-278	ELSEVIER

7. Title of Research Output: Optimised Hydrodynamic Parameters for the Design of Photobioreactors Using Computational Fluid Dynamics and Experimental Validation

Authors: Jessie Pascual P. Bitog, In-Bok Lee, Hee-Mock Oh, Se-Woon Hong, Il-Hwan Seo, Kyeong-Seok Kwon

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Citlalli Adelaida Arroyo, et al	CO2 Capture of the Gas Emission, Using a Catalytic Converter and Airlift Bioreactors with the Microalga Scenedesmus dimorphus	Applied Sciences	Vol. 9, No. 16	MDPI



Lorenzo López-Rosales, et al	Characterization of bubble column photobioreactors for shear-sensitive microalgae culture	Bioresource Technology	Vol. 275, Pages 1-9	ELSEVIER
Jingwei Fu, Yun Huang, et al	Photo-bioreactor design for microalgae: A review from the aspect of CO2 transfer and conversion	Bioresource Technology	Vol. 292	ELSEVIER
Filali Rayen, et al	Optimization of a raceway pond system for wastewater treatment: a review	Critical Reviews in Biotechnology	Vol. 39, No. 3, Pages 422-435	Taylor & Francis

8. Title of Research Output: SOC Turnover and Lime-CO2 Evolution during Liming of an Acid Andisol and Ultisol

Authors: Wilfredo A. Dumale Jr., Tsuyoshi Miyazaki, Kenta Hirai, Taku Nishimura

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
De Shorn E. Bramble, et al	Organic Residues and Ammonium Effects on CO2 Emissions and Soil Quality Indicators in Limed Acid Tropical Soils	Soil Systems	Vol. 3, No. 1	MDPI
De Shorn E. Bramble, et al	Short-term effects of aglime on inorganic- and organic-derived CO2 emissions from two acid soils amended with an ammonium-based fertiliser	Journal of Soils and Sediments	Vol. 20, No. 1	Springer Link

9. Title of Research Output: Numerical Simulation Study of A Tree Windbreak

Authors: JP Bitog, IB Lee, HS Hwang, MH Shin, SW hong, IH Seo, KS Kwon, E Mostafa, Z Pang

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Seyed Arman Hashemi Monfared, et al	Using Windbreaks for Decreasing Lake and Reservoir Evaporation: A Case Study from Iran	Polish Journal of Environmental Studies	Vol. 28, No. 4, Pages 2289-2298	PJOES
Xiaoye Li, et al	Research on Simulation Model of Wind Speed Change before and after Protection Forest Belt	Advances in Computer Science Research	N/A	Atlantis Press
Cheng Hong, et al	Transition model for airflow fields from single plants to multiple plants	Agricultural and Forest Meteorology	Vol. 266-267,	ELSEVIER



			Pages 29-42	
YanYan Yang, et al	Converging Effects of Shrubs on Shadow Dune Formation and Sand Trapping	JGR Earth Surface	N/A	AGU100
Lento Manickathan	Unveiling dynamic changes in the diurnal microclimate of a Buxus sempervirens with non-intrusive imaging of flow field, leaf temperature, and plant microstructure	Fluid Dynamics	N/A	Cornell University Library

10. Title of Research Output: Determinants of LET Performance of Teacher Education Graduates in State University

Authors: JB Pascua, JD Navalta

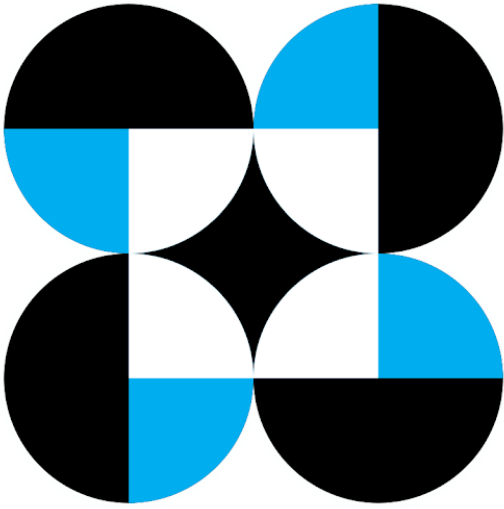
Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Dr. Norman V. Alfonso	Policies, Practices of Teacher Education Institutions and the Performance of their Graduates	International Journal of English Literature and Social Sciences	Vol. 4, No. 3	IJELS

11. Title of Research Output: The Effect of Seed-borne Mycoflora from Sorghum and Foxtail Millet Seeds on Germination and Disease Transmission

Authors: JI Yago, JH Roh, SD Bae, YN Yoon, HJ Kim and MH Nam

Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	Publisher
Komivi DOSSA, et al	Fungicidal formulation based on essential oils of Cymbopogon citratus, Lippia multiflora and natural clay in controlling sorghum seed-borne fungi	International Journal of Agriculture and Environmental Research	Vol. 5, No. 5	EPH
Andrea L. Astoreca, et al	Fungal contamination and mycotoxins associated with sorghum crop: its relevance today	European Journal of Plant Pathology	Vol. 155, No. 2, Pages 381–392	Springer Link
Anne Caroline Dallabrida et al	Fungi Associated with Major Agricultural and Forage Crops in Integrated Systems of Brazilian Tropical Regions	Journal of Experimental Agriculture International	Vol. 39, No. 5	JEAI





PARTNERSHIPS AND COLLABORATIONS

Thirty two (32) new Memorandum of Agreement or Understanding were forged for various research, extension and training projects through the different faculty researchers, extensionists and staff:

No.	TITLE OF PROJECT (EXTENSION)	TYPE OF LINKAGE
1.	Field Testing, Pilot Scale Production and Market Study of Locally-Developed bioinsecticide for Eggplant	Project
2.	Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub	Project
3.	Development of Formulated Entomopathogenic Fungi (EPF) as Biofungicide Against Tomato Black Leaf Mold (TBLM)	Project
4.	Commercializing Whole Corm Macropropagation Technology for Lakatan and Bungulan: A Viabe Livelihood Option for Banana Farmers in Nueva Vizcaya	Project
5.	Harnessing Research and Development Through Acquisition of Scanning Electron Microscopy	Project
6.	Upgrading of R&D Facilities of Plant Pest Clinic and Diagnostic Center in Cagayan Valley	Project
7.	KLABS21: A Web-based Trading System of Fruits and Vegetables Phase 2	Project
8.	Bartolome Piggery Farm for technical assistance/consultancy in the design and establishment of NVSU model Anaerobic Digester	Extension Project
9.	LGU Villaverde and the Balangon Integrated Growers Association of Sawmill (BIGAS) on the DA-BAR funded project "Commercializing Whole Corm Macropropagation Technology for Lakatan and Bungulan: A Viable Livelihood Option for Banana Farmers in Nueva Vizcaya."	Extension Project
10.	Amancio Agri/ Tourism Academy, at San Luis, Diadi, Nueva Vizcaya Inc. – NVSU to serve as a farm training center where capability enhancements activities and OJT for students can be conducted	Extension Project
11.	Timpuyog Ti Babbalasang Idi Kalman, Nueva Vizcaya TIBIK-NV -NVSU to provide technical services and livelihood assistance to its constituents	Extension Project
12.	Community Livelihood Association of San Antonio South (CLASS), Bambang, Nueva Vizcaya – NVSU to provide Livelihood, Technology Transfer, Advisory Services and Training	Extension Project
13.	LGU Kayapa, Nueva Vizcaya, NVSU and Ms. Monchita M. Mendoza as cooperators on implementing a collaborative extension project with the Quirino State University (QSU) involving the "Capacitating Farmers on Integrated Pest Management and Entrepreneurship for Sustainable Rural Development"	Extension Project
14.	Diadi National High School and NVSU on undertaking extension program and entrepreneurship for sustainable development of Diadi National High School.	Extension Project
15.	Barangay Council of Bonfal East and NVSU College of Human Ecology on Adopt-A-Barangay in Bonfal East, Bayombong, Nueva Vizcaya	Extension Project
16.	Barangay Magapuy, Bayombong, Nueva Vizcaya and NVSU College of Forestry on providing instruction, research, extension and training services	Extension Project
17.	Mr. Simeon U. Rafael of Brgy. Binogawan, Kasibu, Nueva Vizcaya as cooperators of CRR4DCV	Extension Project
18.	LGU Kayapa, Nueva Vizcaya, NVSU and Rural Improvement Club (RIC) at Tidang Village, Kayapa as RIC-Tidang on implementing a collaborative extension project with the Quirino State University (QSU) involving the "Capacitating Farmers on Integrated Pest Management and Entrepreneurship for Sustainable Rural Development"	Extension Project
19.	Memorandum of Agreement between Timpoyog Ti Babbalasang Idi Kalman, Nueva Vizcaya TIBIKNVSU and NVSU to provide technical	Extension Project: College of Human Ecology and College of Agriculture



20.	Establishment of Farm Model for livelihood Project (Mushroom fruit trees etc and provide technical assistance to training to Amancio Farm)	Extension Project: AMANCIO AGRI-TOURISM ACADEMY San Luis Diadi, Nueva Vizcaya
21.	Memorandum of Agreement between the Local Government Unit of Kayapa , NVSU and Mrs. Monchita M. Mendoza as cooperator and Rural Improvement Club (RIC) at Tidang Villegge, Kayapa as RIC Trading on implementation a collaborative extension project with the Quirino State University (QSU) involving the capacitating Farmers on Integrated Pest Management and Entrepreneurial for Sustainable Rural Development	Extension Project: LGU Kayapa Nueva Vizcaya and NVSU and Mrs. Monchita M. Mendoza as cooperator and the Rural Improvement Club (RIC) at Tidang Village Kayapa
22.	Livelihood Technology Transfer and Advisory Services and Training (in partnership with Community Livelihood Association (CLASS) of San Antonio Bambang, Nueva Vizcaya	Extension Project: College of Industrial technology College of Arts and Sciences College of Engineering College of Teacher Education Bambang Campus
23.	Establishment of Farm Models for livelihood Project (mushroom, fruit trees, etc and provide technical assistance and training to Amancio Farm (Amancio Agri·Tourism Academy Sam Luis, Diadi Nueva Vizcaya	Extension Project: College of Agriculture and Extension Program
24.	Financial literacy and Social Entrepreneurship	Extension Project: College of Business Education
25.	Anaerobic Digestion Energy Generation and Utilization for Increased Swine Productivity	Extension Project: College of Engineering
26.	Beterinaryo Sa Baryo program	Extension Project: College of Veterinary Medicine
27.	Project MASOC·Movement for an Active Stable and organized Community	Extension Project: College of Arts and Sciences
28.	Karunungan, Kakayahan at Kabuhayan Para Sa Mga Mag aaral at Mamamayan	Extension Project: College of Teacher Education (Bambang Campus)
29.	Establishment of Learning Sites/Demonstration Farms	Extension Project: College of Agriculture
30.	Empowering Community through Development and Entrepreneurship	Extension Project: College of Human Ecology
31.	Establishment of Agroforestry Demonstrating Farm Cum £mplen1entation of Livelihood Project	Extension Project: College of Forestry
32.	Memorandum of Agreement on Extension Program namely Livelihood , Technology Transfer, Advisory Services and Trainings a. Liga ng mga Barangya of Bambang, Nueva Vizcaya b. local Government Unit of Bambang, Nueva Vizcaya c. Barangay Council of Buag, Bambang, Nueva Vizcaya d. Bambang West Elementary School Bambang, Nueva Vizcaya	Extension Project: Bambang Campus College of Industrial Technology College of Arts and Sciences College of Teacher Education College of Engineering





TRAININGS CONDUCTED

Training Activities

The Extension program conducted trainings on various livelihood projects, agricultural production, homemaking and/or industrial technology, and other capability building activities. As a result of these trainings conducted by the Extension program and the different colleges of both campuses, a total of **2,289** people were extended with services and knowledge.

No.	Title of Training Conducted 2019	Date	Place/Venue	Responsible Person/College/Unit	No. of persons trained weighted by length of training
1.	Training on Coffee Production	January 9-10, 2019	Duruarog, Diadi, Nueva Vizcaya	Extension Program	37.5
2.	Training on Banana Production	January 17-18, 2019	Duruarog, Diadi, Nueva Vizcaya	Extension Program	56.25
3.	Training on Mushroom Production	January 26-27, 2019	Lupang Arenda Barangay Arenda , Taytay Rizal	College of Forestry	46.25
4.	Basic Bookkeeping Cooperative and Project Proposal Preparation	February 8, 2019	San Antonio South, Bambang, Nueva Vizcaya	College of Arts and Sciences (Bambang Campus)	40
5.	Enhancement of Rainfed Rice Production and Management	March 5, 2019	Magsaysay, Bayombong, Nueva Vizcaya	College of Agriculture	37
6.	Enhancement Training on Ginger Tea Making	March 27, 2019	Belance, Dupax del Norte	College of Human Ecology and DAR	15
7.	Fruit and Vegetable Processing	April 3, 2019	NVSU Processing Center , NVSU	College of Human Ecology	16
8.	Training on Mushroom Production (Pleurotus)	April 25-26, 2019	Baan, Aritao, Nueva Vizcaya	College of Forestry	27.5
9.	Training on Mushroom Production	April 9-10, 2019	NVSU, College of Forestry	College of Forestry	25
10.	Field Day on Organic Rice	May 23, 2019	Tidang Village , Kayapa , Nueva Vizcaya	Extension and MRRDC	100
11.	Training on Farm Business and Farmer Business School	June 13-14, 2019	Tidang Village, Kayapa, Nueva Vizcaya	MRRDC	37.5
12.	Training on Mushroom Production and Small Entrepreneurs	July 5, 2019	Robinsons Place Tuguegarao City	Extension Program	47
13.	Seminar on Financial Management	August 19-20, 2019	DFTC, NVSU Bayombong	DOST-PCAARRD (NVSU RET hosted)	70



14.	Campus Journalism Workshop	August 24, 2019	Aritao National High School	College of Teacher Education (Bambang Campus)	371
15.	Campus Journalism Workshop	September 3-4, 2019	Bambang Central School SPED Center	College of Teacher Education (Bambang Campus)	50
16.	Training on Oyster Production	August 29-30, 2019	Tuao South, Bagabag, Nueva Vizcaya	Extension	25
17.	Training on Mushroom Production	September 21-22, 2019	ARESCOM Vista Hills Bayombong, Nueva Vizcaya	College of Forestry	50
18.	Organic Agriculture Training cum Mushroom	September 25-26, 2019	Busilac, Bayombong, Nueva Vizcaya	College of Forestry	31.25
19.	Training on Mushroom Production and Processing	October 7-8, 2019	Casat Bayombong, Nueva Vizcaya	College of Agriculture	28
20.	Seminar-Workshop on Action Research	October 10-11, 2019	Diadi, National High School	College of education	77.5
21.	Developing Communication Strategies and IEC Materials and Data Base Basic Information	October 11-12, 2019	Casa Villaverde, Nueva Vizcaya	College of Business Education	31.75
22.	Capability Building Training on Automotive Trouble shooting for motorcycles Riders etc	October 11, 2019	Ipil Cuneg Bayombong, Nueva Vizcaya	College of Teacher Education	56
23.	Leadership Training on Makatao, Makabansa Makakalikahan	October 21-22, 2019	Diadi National High School	College of Teacher Education	106.25
24.	Skills Training on Meat Processing(Pork Embotido and Chicken Hamon) and Skills Training in Basic Food and Beverage Service	October 25 and 30, 2019	Barangay Barat Bambang, Nueva Vizcaya	College of Industrial Technology	50
25.	Leadership, Values Formation and Gender and Development	October 30-31, 2019	DFTC, NVSU, Bayombong, Nueva Vizcaya	Extension and Dept of Agrarian Reform (Provincial)	51.25
26.	Skills Training in Basic Food and Beverage Service (Table Set-up, Table Skirting and Table Napkin Folding)	November 4, 2019	Saint Catherine Parish of Nueva Vizcaya Multi-Purpose Cooperative	College of Industrial Technology	50
27.	Skills Training on Meat Processing (Pork Embotido and Chicken Hamon) and Skills Training in Basic Food and Beverage Service	November 8, 2019	Barangay Almaguer, Bambang, Nueva Vizcaya	College of Industrial Technology	50



	(Table Set-up, Table Skirting, Table Napkin Folding and Food Carving)				
28.	Training on Mushroom and Processing	November 15-16, 2019	Buena vista, Bayombong, Nueva Vizcaya	Extension & Training Office	12.5
29.	Training on Adobe Photoshop	November 14-15, 2019	Salinas, Bambnag, Nueva Vizcaya	College of Engineering (Bambang Campus)	56.25
30.	Training on Concoction Kuhol Amino Acid	November 25-26, 2019	Casat, Bayombong, Nueva Vizcaya	College of Agriculture	162.5
31.	Training on Mushroom Production	November 25-26, 2019	AGRIZKAYA	Extension & Training	48.75
32.	Organic Agriculture with VMGO	November 15, 2019	DFTC, NVSU, Bayombong, Nueva Vizcaya	College of Agriculture	15
33.	Training on Diagnostic Test	November 20, 2019	Salinas National High Scholl	College of Teacher Education (Bambang)	38
34.	Training on Functional Literacy	November 22, 2019	Salinas National High School	College of Teacher Education (Bambang)	66
35.	Proposal Writeshop	December 2-3, 2019	Amancio Hotel, Cordon, Isabela	Research, Extension and Training	35
36.	Training on Food Processing	December 5-6, 2019	Salinas National High School	College of Teacher Education (Bambang)	86.25
37.	Training on Consumer Electric Servicing	December 5-6, 2019	Salinas National High School	College of Teacher Education	86.25
38.	Local Legislation and Parliamentary Procedure Training	December 7, 2019	Bambang	College of Teacher Education	41
39.	IPR Workshop	December 10-11, 2019	Amancio Hotel, Cordon, Isabela	IPR	22
40.	Training on Mushroom Production	December 16-18, 2019	Pasalubong Center Busilac Nueva Vizcaya	College of Forestry	36
TOTAL					2,289

1. NVSU hosted DOST-PCAARRD's Seminar on Financial Management on August 19-20, 2019 at DFTC, NVSU, Bayombong, Nueva Vizcaya



2. Valuing Resources and Training on Financial Management, Tidang Village, Kayapa, Nueva Vizcaya, April 4, 2019



3. Veggie Chips, Noodles and Bingawan Black Rice Farmer's Field Day, Tidang Village, Kayapa, Nueva Vizcaya, May 23, 2019



4. Seminar Workshop on Campus Journalism on September 3-4 2019



5. Developing Communication Strategies and IEC Materials and Data Base Basic Information Training on October 11-12, 2019 at Casa Villaverde, Nueva Vizcaya



6. Skills Training in Basic Food and Beverage Service (Table Skirting, Table Napkin Folding and Stage Set-Up) November 4, 2019



7. Skills Training in Basic Food and Beverage Service (Table Set-up, Table Skirting, Table Napkin Folding and Food Carving) November 08, 2019



8. Training-Workshop in Adobe Photoshop (November 14-15, 2019)



9. Training Workshop on Consumer Electronics Servicing (December 5-6, 2019)



10. Proposal Writeshop at Amancio on December 2-3, 2019



11. PROJECT COL3 Cooperative Development, Livelihood, Literacy and Leadership) on December 13, 2019





SOCIAL RESPONSIBILITY



Personnel Movement

Personnel movement refers to promotion, reappointments, reclassification, and new appointments.

There were 22 faculty members who were promoted through institutional promotion. Institutional promotion was made possible to fill-in items vacated by those who have retired from the service. Likewise, 125 were reclassified to various academic ranks as a result of the implementation of NBC 461-7th cycle. There were also 79 faculty members who were reappointed under temporary or permanent status, while seven faculty and 12 non-teaching staff were given new appointments and one transferred to another government agency.

Below shows the breakdown of personnel movement by category in both campuses.

PERSONNEL MOVEMENT	BAYOMBONG		BAMBANG	
	Teaching	Non-teaching	Teaching	Non-teaching
Institutional Promotion (IP)	14	-	8	-
Reappointment	37	1	41	-
New Appointment	5	9	2	3
Reclassification (NBC 461-7 th Cycle)	78	-	47	-
Transfer	1	-	-	-



Awards and Incentives for Service Excellence

Awards and incentives in the form of plaques/certificates/cash incentives are given to faculty and staff with exemplary performances in their respective fields of specializations or works assignments. The 2019 recipients were recognized and were given their respective awards during the 15th Charter Anniversary in March 20, 2019 at NVSU Bambang Campus. The recipients were as follows:

Loyalty Awards

GOLD

40	YEARS IN SERVICE	3
35	YEARS IN SERVICE	12
30	YEARS IN SERVICE	4

SILVER

25	YEARS IN SERVICE	8
20	YEARS IN SERVICE	23

BRONZE

15	YEARS IN SERVICE	14
10	YEARS IN SERVICE	35

Posthumous Awards

Teresita T. Dawan, Estela T. Aguada, Ernesto L. Aquino, Julian P. Aquino, Ruben P. Soriano

Outstanding Achievements as Inventors

Jyrules Jyles D. Cadiente, June C. Quipo, Cristina Decano, Angelito D. Agrimor, Adornado C. Vergara, Jessie Pascual P. Bitog, Glaizalyn B. Lictawa, Sony P. Aquino, Arnulfo W. Maur, Dorothy P. Pagbilao, Florito L. Espiritu, Frankie M. Ramos, George W. Bantasan, Jomar B. Esteban, Leonardo R. Franda, Michael Francis C. Garma, Roman Angelo C. Magno, Leonilo A. Acosta, Dongpan Crusaldo P. Oligario, Elson Boie B. Tumaneng, Bonimar T. Afalla, Alma Bella G. Cablinan, Leah T. Castro, Jenny Grace E. Gamurot, Jane D. Navalta, Romulfo C. Sanchez, Jeronimo L. De Jesus, Rodel M. Cudia, Leonilo A. Acosta, Judy M. Directo, Sonny J. Dangis, Ronnie F. Castaneda, Joel P. Abon, Bryan B. Gabatino, Gail G. Gumilet, William D. Magday Jr., Jerwin F. Memita, Jonathan B. Passion, Demetria A. Corpuz, Revelyn M. Gahate, Krizza Mae U. Laguit, Elenita C. Sanchez, Meylanie S. Moreno, Juanita B. Pascua

Faculty with Published Articles in Refereed Journal

Marlon S. Saludarez, Ryan P. Manuel, Romnick L. Pascua, Dolores B. Galvez, Chery C. Lacaden, Jessica M. Cadoy, Haidee E. Torio

Outstanding Achievements as Authors of Published Books

Laila G. Hernandez, Imelda S. Ocampo, Remedios Dolor L. Fragata, Jay-ar C. Castriciones, Maria Rouselle G. Jandoc, Dynamic Mae B. Balaw-ing, Mercy B. Bimuyavo, Fermila D. Cauilan



Faculty Achievers in Sports

Laila G. Hernandez, Imelda S. Ocampo, Remedios Dolor L. Fragata, Jay-ar C. Castriciones, Maria Rouselle G. Jandoc, Dynamic Mae B. Balaw-ing, Mercy B. Bimuyavo, Fermila D. Cauilan

Outstanding Coaches

Engr. Michael D. Aliaga, Jenifer Raymond R. Tallungan, Fermilyn A. Beralde, Deomedes S. Ranjo, Jr., Vicky A. Maquez, Ronnie M. Sadueste, Simpher R. Guyong, Sheila Amor S. Olonan, Vaisarah Jane G. Martinez, Rommel M. Cudia, Cherry Ann P. Navalta, Adam Roy S. Elizaga, Joel T. Abon, Rhea L. Adriatico, Jerwin F. Memita, Keziah Ann D. Rosini, Jean R. Oracles, Joan M. Nebrida, Michelle A. Abalos, Evangeline C. Remolazo, Marvin Jay A. Tagngong, James G. Bangunan



Statement of University's Financial Performance

The University in 2019 generated a total revenue of P 59,864,192.65 from service, business, grants and donations, and miscellaneous income. There was a slight increase of 3.47% from the total revenue of 2018 of P 57,553,638.44. In addition to this, the 2019 financial subsidy from the national government amounted to P511, 391,383.53. Thus, a total budget of P 571,255,576.18, noting a slight increase of 4.75% from the 2018 budget of P543, 950, 556.84. Deducting the total current operating expenses of P473, 103,184.42 resulted to a surplus of P 97, 914, 738.43. The surplus will be added to the capital account of the University for the succeeding year. Utilization of which will be subjected to accounting rules and regulations.

STATEMENT OF FINANCIAL PERFORMANCE			
AS OF DECEMBER 31, 2019			
REVENUE	NOTE	2019	2018
Service and Business Income	19	58, 864, 192.65	56, 626, 694.06
Shares, Grants and Donations	20	34, 225.00	384, 068.17
Other Non-Operating Income	21	728, 121.67	542, 876.21
Total Revenue		59, 626, 539.32	57, 553, 638.44
Less: Current Operating Expenses			
Personal Expenses	22	383, 196, 819.16	350, 477, 074.31
Maintenance and Other Operating Expenses	23	72, 967, 663.52	75, 527, 550.96
Non-Cash Expenses	24	16, 938, 701.74	16, 665, 776.18
Total Current Operating Expenses		473, 103, 184.42	442, 670, 401.45
Surplus/(Deficit) From Current Operations		(413, 476, 645.10)	(385, 116, 763.01)
Net Financial Assistance/Subsidy	25	511, 391, 383.53	486, 396, 87.40
Surplus/(Deficit) for the period		97, 914, 738.43	101, 280, 110.39



Statement of Financial Position

The financial position of the University is presented on the table below indicating equality in the total assets, and total liabilities and equity.

STATEMENT OF FINANCIAL POSITION			
ALL FUNDS			
AS OF DECEMBER 31, 2019			
ASSETS	NOTE	2019	2018
CURRENT ASSET			
Cash	5	267,401,757.64	239,989,429.79
Receivable	6	40,852,645.94	36,157,960.22
Inventories	7	1,524,081.73	2,489,111.15
Other Current Assets	8	4,649,464.09	8,639,906.39
TOTAL CURRENT ASSET		314,427,949.40	287,276,407.55
NON CURRENT ASSETS			
Property, plant and equipment	9	536,522,292.86	452,875,674.40
Intangible Assets	10	1,676,425.50	1,588,893.80
Other Non-Current Assets	11	3,077,014.27	442,171.95
TOTAL NON-CURRENT ASSETS	12	549,407,954.27	467,717,530.51
TOTAL ASSETS		863,835,903.67	754,993,938.06
LIABILITIES			
CURRENT LIABILITIES			
Financial Liabilities	13	30,168,883.48	34,210,632.97
Tax Refund Payables		-	134,945.10
Inter-Agency Payables	14	1,589,009.37	550,439.08
Trust Liabilities	15	827,787.82	986,867.95
Other Payables	16	180,266,576.41	166,324,680.95
TOTAL CURRENT LIABILITIES	17	33,439.00	18,729.00
TOTAL LIABILITIES		212,885,646.08	202,226,295.05
Government Equity, End	18	650,950,857.59	552,767,643.01
TOTAL LIABILITIES AND EQUITY		863,835,903.67	754,993,938.06



Income Generating Projects

Auxiliary Services

The Auxiliary Services manage the non-agriculture related income generating projects of the university. For year 2019, the Auxiliary Services was able to generate an income collections at P 2,875,373.79 and P 460,047.80 for Bayombong and Bambang campuses, respectively. It can be noted from the data below that there were projects which recorded negative income. The negative data was attributed to the expenses incurred in the repair/improvement of facilities of the projects.

Below shows the details of income generated from the various projects.

SOURCES OF INCOME	INCOME		
	AUXILIARY FUND (FUND 163)	BAYOMBONG	BAMBANG
Catering/Cafeteria		562,185.49	11,357.40
DFTC		(43,560.41)	
Dormitory		180,611.74	100,696.98
Guest House		7,899.00	-
Staff House		(6,984.51)	-
Canteen HS		26,000	-
GSIS Rental		821,360.10	
Gymnasium		84,418.32	2,995.00
House rental		126,255.96	-
International House		1,300.00	-
Stalls/pavilion/other facilities		297,927.40	320,450.72
Mini theatre		(78,154.39)	-
Rent income cafeteria		-	56,500
Training Rooms/Halls		-	3,117.00
Comprehensive Exam/Advisement Fees		62,400	332,700.00
ID Production and Internet		388,317.14	(103,763.17)
Forestry Review		49,398.85	-
LET Review		60,396	-
Tarpaulin Printing		-	5,760
Interest Income		5,299.81	3,120.24
Sub-Total (AF)		2,574,451.19	367,534.17
REVOLVING FUND (FUND 163)			
Bakery		-	79,664.63
Merchandising		110,710	-
Water Refilling Station		157,212.60	-
Furniture Making		33,000	-
Income from Ceramics		-	8,040
Auto Shop & Repair		-	4,800
Sub-Total (RF)		300,922.60	92,504.63
TOTAL		2,875,373.79	460,047.80



Business Affairs

The Business Affairs Program is the entrepreneurial arm of the University. It manages agricultural production and manufacturing activities. It also handles the agri-based projects and the IGP component of the continuing research and extension projects of the RET. The agri-based projects composed of five major projects are: the Swine, Broiler, Ruminants, Pomology, Aquaculture and Rice production projects.

The net income decreased by 35% compared to that of 2018. The decrease is due to the limited income of the rice project brought about by the poor irrigation and the pomology project as a result of aging fruit trees. Similarly, the business affairs also scaled down the operation of the swine project because of its gas emission which caused government regulating bodies to call its attention.

The decrease in current assets and eventually in the government equity was brought about by the transfer of funds for the University share in the accumulated net income of the program from 2012 to 2017 as approved by the Board of Regents. .

RESULTS OF OPERATIONS		
ACCOUNT	2019	2018
Gross Sales	2, 773, 390.78	3, 043, 679.40
Less: Cost and Expenses	2, 236, 101.46	2, 267, 978.31
Net Income	497, 289.32	775, 701.09

FINANCIAL CONDITION		
ACCOUNT	2019	2018
Current Assets	8, 508, 176.44	9, 111, 781.84
Non-Current Assets	2, 196, 375.14	4, 082, 281.54
Liabilities	353, 516.60	553, 762.79
Government Equity	10, 351, 036.98	12, 640, 300.61



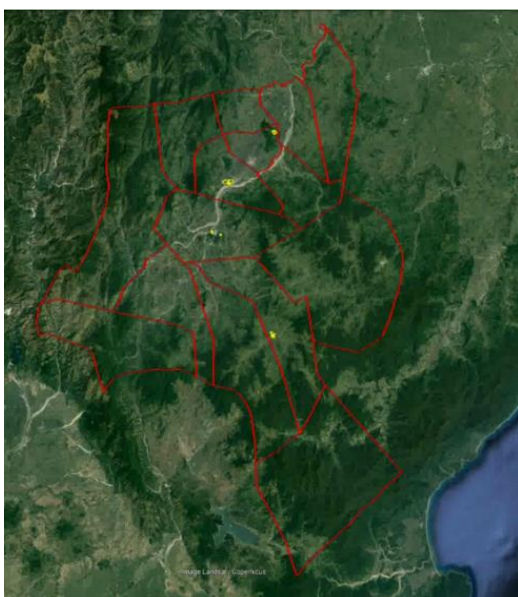
Planning Development and Information System

Land Management & University Properties



After years and decades, land properties of the university are being looked into in terms of its legal scope through the initiative of the office of the Planning Development and Information System (PDIS). This gargantuan task provides the university its highway to maximize its land resources and further chart the sails of its operations. Surveying activities and dialogues with residents and illegal settlers in proper forum were undertaken.

Likewise, this undertaking focuses on land development and expansion. The dream to materialize and attain the global vision of the university is now laid down. In due time with the legal requirements of these huge land properties, then, venturing to greater heights and bigger opportunities will be taking place.



NVSU Bayombong campus is located within the heart of the Province of Nueva Vizcaya containing an approximate area of 137.23 hectares.

51.7 hectares cattle ranch located at Barangay Belance, Dupax del Norte, Nueva Vizcaya.

5.5 hectares located at Barangay Magsaysay Hills, Bambang, Nueva Vizcaya.

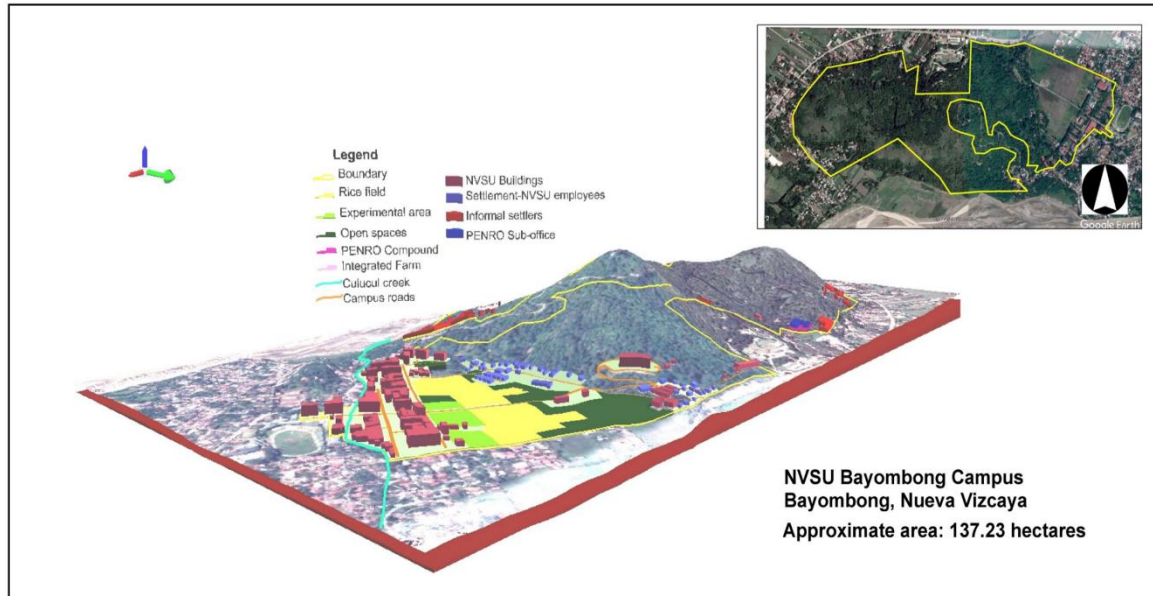
NVSU Bambang campus is located within the commercial center of the Province containing an approximate area of 10.55 hectares.

38.1 hectares Buffalo ranch located at Tuao South, Bagabag, Nueva Vizcaya.



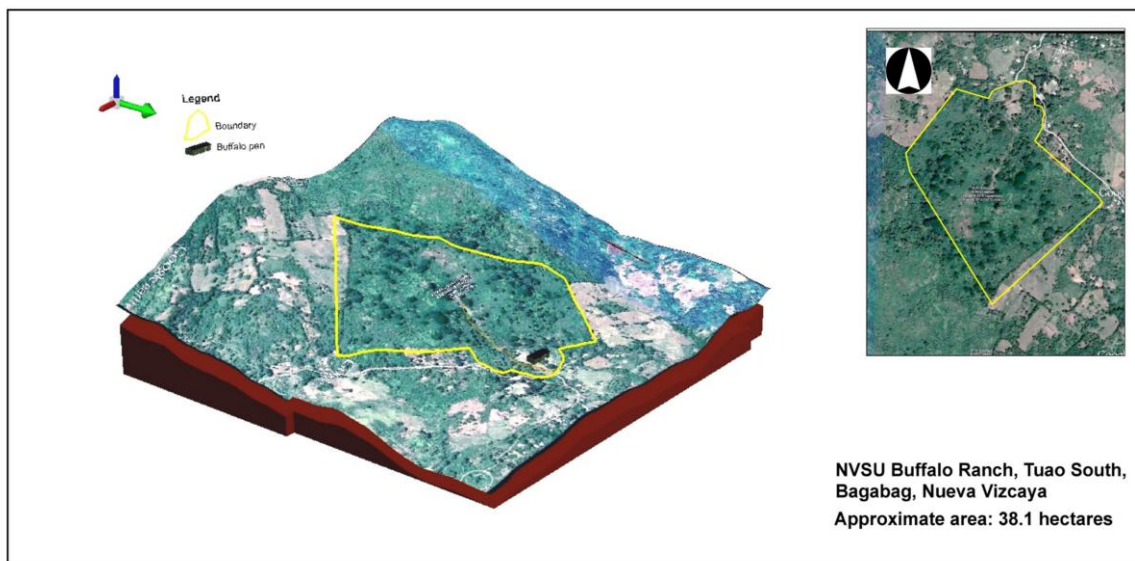
Bayombong Campus

Profiling of informal settlers within the coverage of the land property in Bayombong campus for appropriate actions has been accomplished. Generation of reference maps of boundaries and land uses in preparation of the University's Land Use Development and Infrastructure has been done.



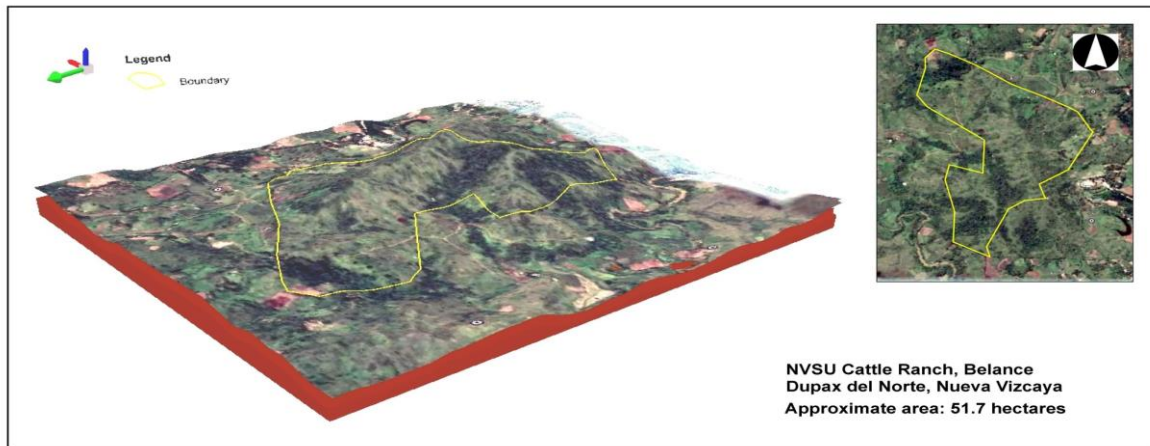
Land Asset in Brgy. Tuao South, Bagabag

The university was able to recover 38.1 hectares out of the 130 hectares donated by the Municipality of Bagabag in 1980. This area is being used as Buffalo ranch and the construction of the piggery is currently undertaken.



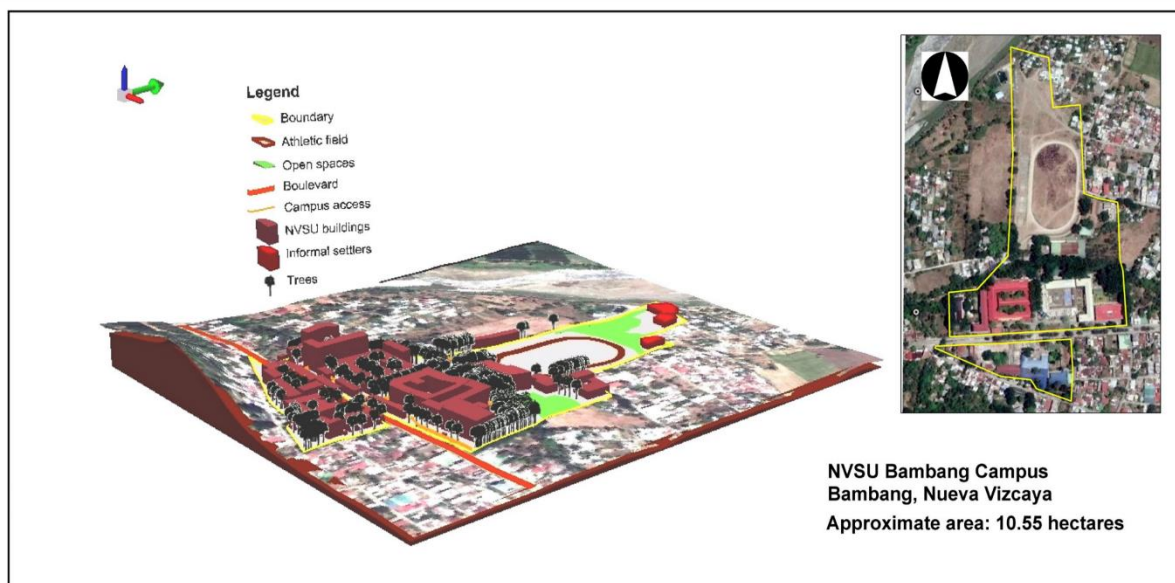
Land Asset in Brgy. Belance, Dupax Del Norte

In Barangay Belance, Dupax del Norte Nueva Vizcaya, 51.7 hectares were recovered from the 5,692 hectares land asset awarded by the DENR under Civil Reservation 145. The land area is currently utilized as Buffalo Ranch by the University. Also in Barangay Belance, Dupax del Norte Nueva Vizcaya, the 420 hectares watershed reservation was entered into a Memorandum of Agreement with the Saint Joseph Rural Waterworks and Sanitation Association (SJRWSA) for its protection and conservation.



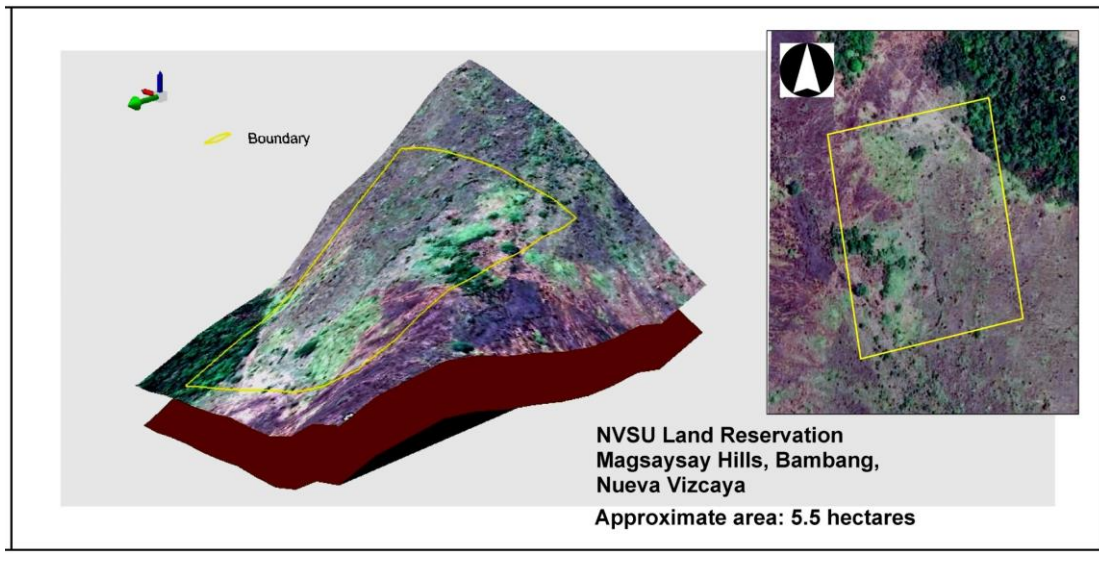
Bambang Campus

GPS-based and ground delineation of the NVSU Bambang campus boundary and profiling of the informal settlers including their occupied area within the campus have been accomplished.



Land Asset in Punawa, Magsaysay Hills, Bambang

GPS-based and ground delineation of boundary of the 5.5 hectares NVSU land property and introduction of fruit bearing trees to develop as agroforestry have been worked out.



Physical and Financial Status of Projects

Bayombong and Bambang Campus

The university continues to provide its stakeholders a comfortable place to work and learn. The Planning Development and Information System is responsible on the design, implementation and/or supervision of the continuing improvement of the physical structures and site development. The state of the art infrastructure and facilities are all for the enhancement of services and operations of the University in terms of academic, research, extension, development and production.

Bayombong Campus Completed Projects for year 2019

Project: **Completion of Gymnatorium**
Total Project Cost: Php 2,811,720.33
Date Started: Jan 4, 2019
Obligations Incurred: Php 3,024,720.33



Project: **Completion of Engineering Laboratory and Facilities**
Total Project Cost: Php 8,112,029.40
Date Started: June 4, 2019
Obligations incurred: Php 8,112,029.40



Project: **Construction of Soil Laboratory Building**

Total Project Cost: Php 2,079,160.91

Date Started: June 4, 2019

Obligations Incurred: Php 2,079,160.91

Status: Completed



Project: **Construction of Native Pig and Other**

Indigenous Poultry Building

Total Project Cost: Php 4,021,679.00

Date Started: June 4, 2019

Obligations Incurred: Php 4,021,679.00

Status: Completed



Bayombong Campus On-Going Projects for year 2019

Project: **Repair/Rehabilitation of College of Engineering Annex Building**

Total Project Cost: Php 1,187,000.00

Date Started: June 3, 2019

Obligations Incurred: Php 1,173,568.75

Status: 83.11% Completed



Project: **Repair/Rehabilitation of College of Engineering E-Lab Building**
Total Project Cost: Php 1,097,000.00
Date Started: June 3, 2019
Obligations Incurred: Php 1,086,672.48
Status: 74.71% Completed



Project: **Repair/Rehabilitation of College of Business & Economics Building**
Total Project Cost: Php 1,379,000.00
Date Started: June 3, 2019
Obligations Incurred: Php 1,369,959.86
Status: 77.03% Completed



Project: **Repair/Rehabilitation of College of Business & Economics Building**
Total Project Cost: Php 1,379,000.00
Date Started: June 3, 2019
Obligations Incurred: Php 1,369,959.86
Status: 64.14% Completed



Project: **Repair/Rehabilitation of College of Forestry Building 2**
Total Project Cost: Php 1,124,999.51
Date Started: June 3, 2019
Obligations Incurred: Php 1,114,866.86
Status: 79.81% Completed



Project: **Repair/Rehabilitation of College of Forestry Building 1**
Total Project Cost: Php 1,187,000.00
Date Started: June 3, 2019
Obligations Incurred: Php 1,173,568.75
Status: 82.53% Completed



Project: **Repair/Rehabilitation of College of Forestry Building 2**
Total Project Cost: Php 1,097,000.00
Date Started: June 3, 2019
Obligations Incurred: Php 1,086,672.48
Status: 88.43% Completed



Project: **Repair/Rehabilitation of College of Teacher Education Building 1**

Total Project Cost: Php 1,379,000.00

Date Started: June 3, 2019

Obligations Incurred: Php 1,369,959.86

Status: 97.26% Completed



Project: **Repair/Rehabilitation of College of Teacher Education Building 2**

Total Project Cost: Php 1,379,000.00

Date Started: June 3, 2019

Obligations Incurred: Php 1,369,959.86

Status: 87.53% Completed



Project: **Repair/Rehabilitation of Research Building**

Total Project Cost: Php 2,000,000.00

Date Started: June 5, 2019

Obligations Incurred: Php 1,923,765.06

Status: 98.18% Completed



Project: **Repair/Rehabilitation of Library Building**

Total Project Cost: Php 1,124,999.51

Date Started: June 3, 2019

Obligations Incurred: Php 1,114,866.86

Status: 26.76% Completed



Project: **Repair/Rehabilitation of College of Agriculture (Main Building)**

Total Project Cost: Php 1,173,000.00

Date Started: June 5, 2019

Obligations incurred: Php 1,132,290.92

Status: 59.65% Completed



Project: **Repair/Rehabilitation of Office of the Student Affairs**

Total Project Cost: Php 653,000.00

Date Started: June 5, 2019

Obligations Incurred: Php 565,760.18

Status: 61.67% Completed



Project: **Repair/Rehabilitation of College Of Human Ecology**

Total Project Cost: Php 1,653,000.00
Date Started: June 5, 2019
Obligations Incurred: Php 1,495,191.67
Status: 88.57% Completed



Project: **Completion of Veterinary Medicine Building**

Total Project Cost: Php 4,826,284.71
Date Started: Oct. 1, 2019
Obligations Incurred: Php 981,713.36
Status: 29.07% Completed



Project: **Completion of Analytic and Crop Protection Building**

Total Project Cost: Php 4,849,991.44
Date Started: Sept. 18, 2019
Obligations Incurred: Php 2,553,035.49
Status: 52.64% Completed



Project: **Improvement of Dumlao Farmers Training Center (DFTC) Building**

Total Project Cost: Php 3,573,337.58

Date Started: Oct. 8, 2019

Obligations Incurred: Php 1,465,751.73

Status: 41.02% Completed



Bambang Campus On-going Projects for Year 2019

Project: **Repair/Rehabilitation of University Athletic Grandstand, Bleacher, and Grandstand Comfort Rooms**

Total Project Cost: Php 6,500, 000

Date Started: Oct. 1, 2019

Obligations Incurred: Php 6, 368, 665.87

Status: 25% Completed



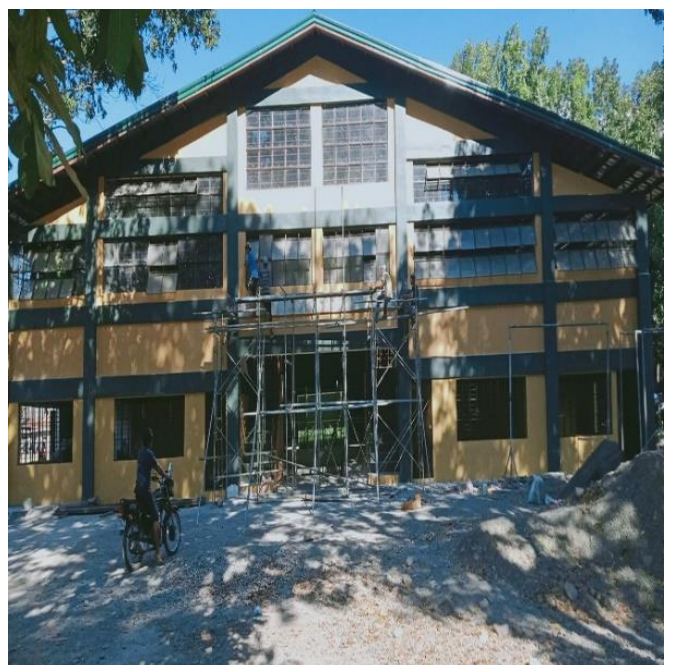
Project: **Improvement of Gymnasium and Facilities**

Total Project Cost: Php 10,000, 000

Date Started: July 15, 2019

Obligations Incurred: Php 8, 819, 739.95

Status: 75% Completed



Project: **Repair/Rehabilitation of Concrete Bridge And Repair/Rehabilitation of Irrigation Canal Slope Protection**

Total Project Cost: Php 5,655, 000

Date Started: May 27, 2019

Obligations Incurred: Php 4, 759, 537.55

+ Php 180, 963.51

Status: 96% Completed



Project: **Repair/Rehabilitation of Graphic Arts Building; Repair/Rehabilitation of Boy's Dormitory; And Repair/Rehabilitation of Automotive Service Center**

Total Project Cost: Php 2, 250, 000

Date Started: November 27, 2019

Obligations Incurred: Php 1, 859, 508.5

Status: 5% Completed



Project: **Repair/Rehabilitation of Cafeteria Building; Repair/Rehabilitation of College of Teacher Education Building; And Repair/Rehabilitation of Medical/Dental/UETC/ OSA Building**

Total Project Cost: Php 2, 650, 000

Date Started: November 27, 2019

Obligations Incurred: Php 2, 209, 267.23

Status: 21% Completed







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