



NUEVA VIZCAYA STATE UNIVERSITY

# ANNUAL REPORT 2021

# ABOUT NVSU



## 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

## CORE VALUES

### Academic Excellence

Delivery of relevant and responsive programs, quality instruction and acquisition of highly competitive skills

### Cultural Diversity

Equitable access to education for students and clients with diverse ethnic identities and sustained commitment to nourish indigenous cultures

### Technological Advancement

Continuing innovations for enhancing resources utilization and management towards improved and harmonious living condition

### Social Responsibility

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

## GOALS

### 01 Advanced Education and Higher Education Services

To adapt and address itself as a functional learning center for innovative programs as a model institution and enabling its graduates to be empowered and globally competitive through the provision of undergraduate and graduate education which meets international standards of quality and excellence

### 02 Research & Development and Extension

To generate, verify, package, and promote better and new technologies for adoption and commercialization

### 03 Business Affairs and Resource Generation

To interface the academic, research, development, and extension, and administrative systems and services for viable income generating projects and livelihood programs

### 04 General Administrative and Support Services

To deliver responsive, relevant, and quality services by ensuring the highest level of clientele satisfaction and complying with ethical and regulatory standards





Republic of the Philippines

**NUEVA VIZCAYA STATE UNIVERSITY**

Bayombong, Nueva Vizcaya

His Excellency

**RODRIGO ROA DUTERTE**

President of the Philippines

Malacañang, Manila

Through the Honorable Chair

NVSU Board of Regents

Sir:

I am writing to formally transmit the Accomplishment Report for the Academic Year 2021 on behalf of Nueva Vizcaya State University. This report highlights our achievements, milestones, and notable contributions throughout the year.

We are pleased to present this report as a testament to the hard work, dedication, and commitment exhibited by our faculty, staff, students, and other stakeholders. The report encapsulates the progress made in various areas and reflects our efforts to promote excellence in the four-fold trusts: instruction, research, extension, and production.

We believe that this report serves as a valuable resource for stakeholders, including faculty, staff, students, governing bodies, and external entities. It demonstrates our commitment to transparency, accountability, and continuous improvement.

Enclosed with this transmittal letter, you will find the Accomplishment Report for the Academic Year 2021. We trust that you will find the information within the report both informative and insightful.

Very truly yours,

**HON. RUTH RAÑA-PADILLA**

Office-in-Charge

Office of the President

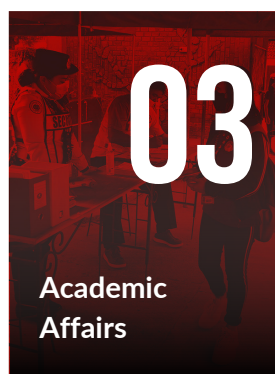
Nueva Vizcaya State University



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# EXECUTIVE SUMMARY

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The Nueva Vizcaya State University has faithfully demonstrated excellence and resilience amid the COVID-19 pandemic which affected education globally.

Through the purposeful leadership of the Officer In-charge, Office of the President, Hon. Ruth Raña-Padilla, the university has navigated well the challenges and opportunities created by the novel virus by providing the teaching and non-teaching workforce with moral and technological support, financial resources, academic classrooms, and research facilities to address the emerging concerns of implementing flexible modalities in instruction, research, extension, and production.

As a premier university, the NVSU stakeholders crafted policies and guidelines that facilitated the pressing need for alternative distance learning. In line with this, the NVSU community has exerted shared efforts in adhering to the health and safety protocols and guidelines set by the local and national inter-agency task force (IATF) and government units.

While the COVID-19 pandemic has caused movement restrictions, health and safety risks, and communication barriers, the global pandemic has also paved the way for NVSU to go beyond its borders through the significant awards, accomplishments, and milestones achieved in admission and licensure performances, human resources development, resources management, policy and process enhancement, profit generation, accreditation, and community engagement.

In essence, the university has constantly adapted and moved forward in the new normal as it continued to conduct academic activities and capacity building, sustainable extension programs, scholarship linkages, income-generating initiatives, knowledge transfer, and technology commercialization.

Guided by its vision, mission, and goals, the Nueva Vizcaya State University has successfully outlasted the pandemic uncertainties, emerging as a more innovative, resilient, and responsive higher learning institution.

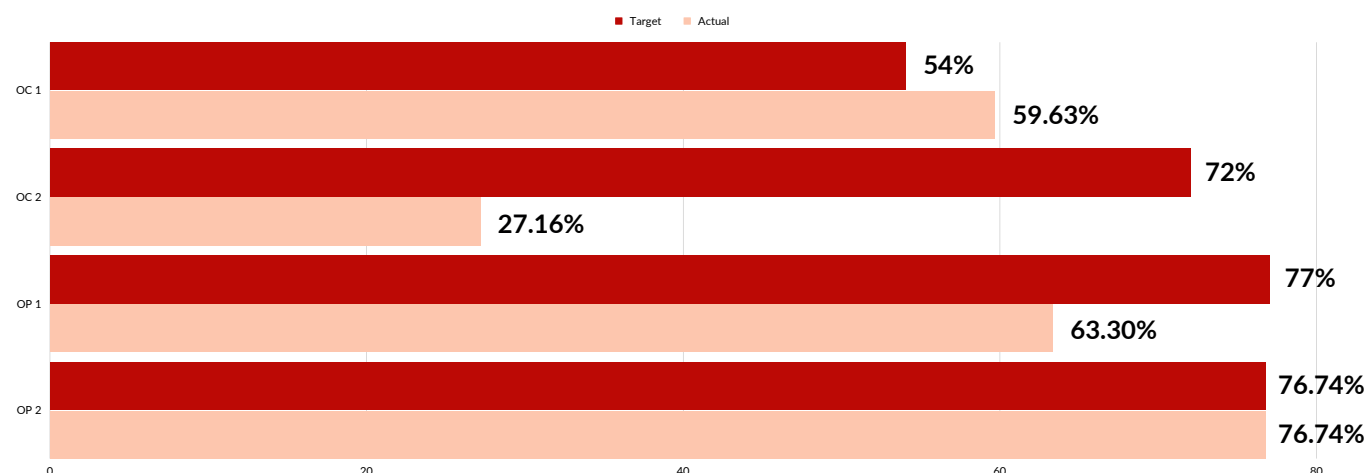


# ACADEMIC AFFAIRS

The academic affairs has these primary functions: (1) leads in the policy review and development (PRD); (2) reviews and revises policies on their relevance to current needs; (3) upgrades the faculty profile through the faculty and staff development program (FSDP); (4) spearheads the recruitment, selection, and promotion of the faculty through its faculty-human resource merit selection and promotion board (HRMSPB); (5) oversees the performance of the university's faculty through its performance management team (PMT) and the faculty performance evaluation system (FPES); (6) represents the academe in planning for its operations; and (7) oversees and ensures implementation of academic programs with quality and excellence both in the higher and advanced education programs.

# AGENCY PERFORMANCE REVIEW

## HIGHER EDUCATION PROGRAM



### OUTCOME INDICATORS

**OC 1:** Percentage of first -time licensure exam- takers that pass the licensure exams

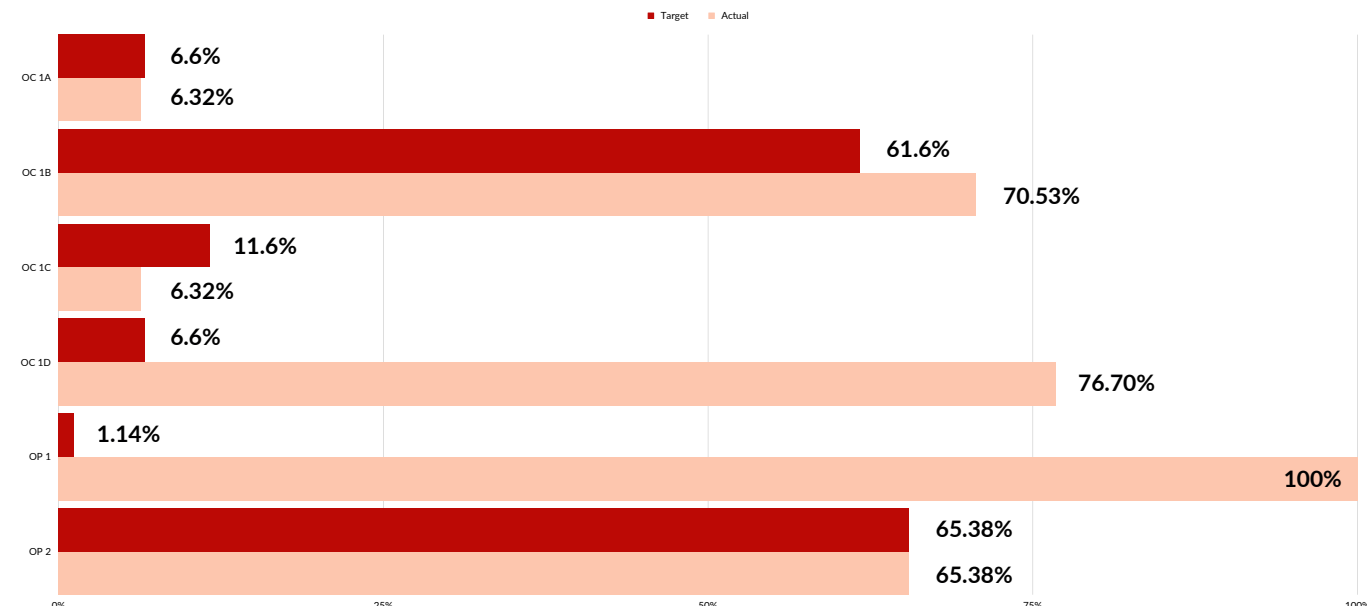
**OC 2:** Percentage of graduates within two years after graduation

### OUTPUT INDICATORS

**OP 1:** Percentage of undergraduate student population enrolled in CHED-identified and RDC priority programs

**OP 2:** Percentage of undergraduate programs with accreditation

## ADVANCED EDUCATION PROGRAM



### OUTCOME INDICATORS

**OC 1:** Percentage of graduate school faculty engaged in research work applied of the following

**OC 1A:** pursuing advanced research degree programs (PhD)

**OC 1B:** engaging in the last three (3) years (investigative research, basic and applied scientific research, policy research, social

**OC 1C:** producing technologies for commercialization or livelihood improvement

**OC 1D:** doing research work resulted in conducting extension program

### OUTPUT INDICATORS

**OP 1:** Percentage of graduate students enrolled in research degree programs

**OP 2:** Percentage of accredited graduate programs



# HIGHER EDUCATION PROGRAM

## ENROLMENT

The First Semester SY 2021-2022 officially opened on October 5 and 10, 2021 for the undergraduate and graduate schools, respectively.

The university posted a total enrolment of

**13,552**

**11.67%**

higher than the 1st Semester of SY 2020-2021 with 11,979 enrollees

PROGRAM	1ST SEMESTER, 2020-2021		1ST SEMESTER, 2021-2022	
	BAYOMBONG	BAMBANG	BAYOMBONG	BAMBANG
Certificate	481	-	377	-
Baccalaureate	6,534	4,130	7,714	4,798
Masteral	395	324	377	179
Doctoral	115	0	93	23
Total	7,525	4,454	8,561	4,991
Grand Total	11,979		13,552	

The University exceeded the set institutional passing percentage of first-time licensure exam-takers by attaining

**60.09%**

four percent higher than the set target.

Remarkably, the University produced a Ninth Placer in the Geodetic Licensure Examination in the person of Ms. Donna Claire M. Dela Cruz.

## LICENSURE



## ACADEMIC AFFAIRS

**6** programs outperformed the National Passing Rate specifically in the licensure examinations for Agriculturists, Foresters, Teachers, and Veterinary Medicine Doctors.

PROGRAM	Date of Exam	No. of First Timer Passers	Number of First Timer Takers	PASSING RATE (%)	
				Institutional	National
BAYOMBONG CAMPUS					
BS Agriculture	November 9 -11	8	21	38.10	35
BS Agricultural & Biosystems Engineering	September 29- 30	8	36	22.22	41.83
BS Civil Engineering	November 14 -15	2	10	20	45.97
BS Geodetic Engineering	December 22-23	9	18	50	68.71
BS Forestry	October 20 -21	22	29	66.67	30.63
Bachelor of Elementary Education	September 26	11	13	84.62	55.96
Bachelor of Secondary Education	September 26	11	18	61.11	57.76
Doctor of Veterinary Medicine	February 2 - 4	1	3	33.33	55.53
	August 4 - 6	5	9	55.56	48.44
BAMBANG CAMPUS					
BS Electrical Engineering	September 5 - 6	16	16	100	64.40
BS Electronics and Communication Engineering	October 24 -25	1	1	100	47.84
Bachelor of Elementary Education	September 26	6	6	100	55.96
Bachelor of Secondary Education	September 26	31	39	79.48	57.76
TOTAL		131	218		

**100%**

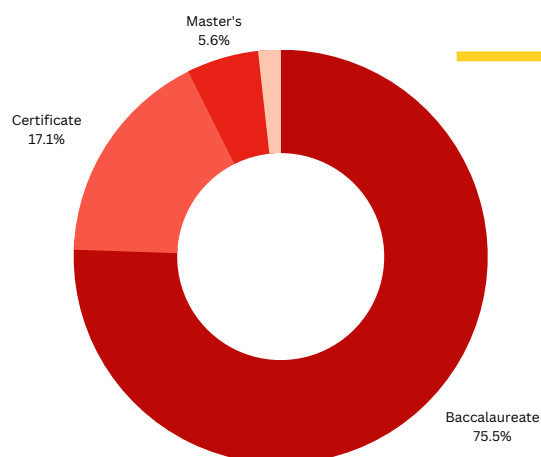
The university impressed a full passing rate in the licensure examinations for Electrical Engineers, Electronic and Communication Engineers, and Elementary Education Teachers.



## ACCREDITATION

**33** of 33 target undergraduate programs to accreditation

This means that the university accomplished **100%** of its target for percentage of Accredited Programs.



## GRADUATION

The Figure above shows that out of 801 graduates (Bayombong – 581, Bambang – 220) of the university, 75.53% of the graduates were from the Baccalaureate programs, 17.10% from the Certificate programs, 5.62% from the Master's programs, and 1.75% from the Doctoral programs.

## POLICY REVIEW AND DEVELOPMENT

The NVSU NSTP Manual of Operation and Web-based NVSU College Admission Test (NCAT) were approved by the Board of Regents through BOR Resolutions Nos. 003, 2021, and 004, 2021, respectively. In addition, the NVSU Institutional Promotion Policy, ETEEAP Manual of Operations, Student Activities Fund (SAF) 2015, and Graduate School Handbook were reviewed.

POLICY/MANUAL PROPOSED	Remarks
NVSU NSTP Manual of Operation	BOR Resolution No. 003, s2021
NVSU Institutional Promotion Policy	Pending BOR approval
The ETEEAP Manual of Operation	Pending BOR approval
Student Activities Fund (SAF) 2015	63.30% (8,153/12,880)
The Graduate School Handbook	Pending BOR approval

# SCHOLARSHIPS

True to its second core value of equitable access to education for students of diverse ethnic qualities and sustained commitment to nourish indigenous culture, the University catered to a total of 6,026 students from both Campuses through various scholarship grants provided by public and private organizations, government institutions, and local government units.

## BAYOMBONG CAMPUS

Type of Scholarship Grant/ Assistance	Number of Scholarship Grants	Number of Grantees	
		2nd Semester, SY 2020-2021	1st Semester, SY 2021-2022
I. Competitive			
Government	8	81	313
Private Organizations	2	19	18
II. Non-competitive			
Government	5	982	884
Local Government Units	1	2	2
Total		1,084	1,217

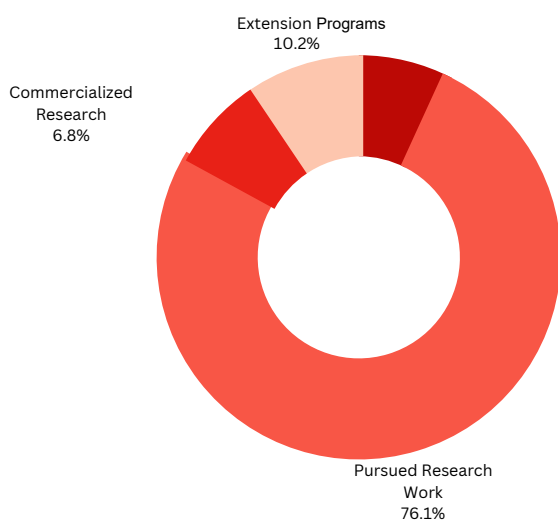
## BAMBANG CAMPUS

Type of Scholarship Grant/ Assistance	Number of Scholarship Grants	Number of Grantees	
		2nd Semester, SY 2020-2021	1st Semester, SY 2021-2022
I. Competitive			
Government	3	69	92
Private Organizations	-	-	-
II. Non-competitive			
Government	9	1,241	2,292
Local Government Units	1	17	14
Total		1,327	2,398

# ADVANCED EDUCATION PROGRAM

## ADMISSION & ENROLMENT

**739** students enrolled in research degree programs, which included Doctorate and Master's Degree by Research and graduate school programs with theses and dissertations. As indicated in the Figure, the university accomplished 100% of its set target.



Further, the enrolment data for Advanced Education Program indicated that 6 out of 95, or 6.32%, were Ph.D. students, 67, or 70.53%, pursued research works, 6, or 6.32%, had their research works commercialized and transpired into livelihood improvement, and 9, or 9.47%, had their researches resulted in extension programs.

## ACCREDITATION

**7** graduate programs were subjected to online first-survey visit by the Accrediting Agency of Chartered Colleges and Universities of the Philippines, Inc. (AACCUP, Inc.) from August 30 to September 3, 2021.

The AACCUP, Inc. awarded Level I status valid for a year to the programs:

Doctor of Education (Educational Management)  
Doctor of Philosophy in Science Education (General Science)  
Doctor of Philosophy in Multilingual Education  
Master of Arts in Teaching (Filipino and English)  
Master of Education (Educational Administration)

In total, the university accomplished

**65.38%**

for the accreditation of graduate degree programs.

# CURRICULUM ENHANCEMENT

In compliance with CHED Memorandum Order 15, series of 2019, the university facilitated the review and revision of all its curricular programs. The enhanced graduate programs were submitted for content notation to the Commission on Higher Education – Region 02 Office and endorsed to the Office of Programs and Standards Development (OPSD) of the CHED Central Office.

The university further submitted application documents for the Certificate of Program Compliance (COPC) to the OPSD. For the undergraduate programs, the university applied for COPC for the Bachelor of Science in Hospitality Management and Bachelor of Science in Tourism Management under the College of Human Ecology. The programs underwent an evaluation conducted virtually by a Regional Quality Assessment Team (RQAT) on December 10, 2021.

The university, through the Board of Regents, approved the renaming of the College of Forestry (CF) to College of Forestry, Environment and Resources Management (CFERM) and the Department of Languages under the College of Arts and Sciences (Bayombong Campus) to Department of Arts and Languages, respectively, through Board Resolutions Nos. 5 and 7, series of 2021.

## QUALITY & EXCELLENCE

The university finally received its

### ISO 9001:2015 QMS CERTIFICATE

on February 1, 2021 from the SOCOTEC International, Inc.

As a follow-up management review on the inputs and outputs stated in the ISO standard held on December 11, 2021, the university vice presidents presented their respective programs in line with the 2021 Performance Reports regarding Higher Education Program (HEP) and Advanced Education program (AEP); Research Program, Technical Advisory Extension Program (TAEP); General Administration and Support Services (GASS); and Planning and Development and Information Systems (PDIS).

Highlighted in the reports were plans for the

- **implementation of limited face-to-face classes for the forthcoming 2nd Semester of Ay 2021-2022;**
- **implementation of relevant research and extension programs, projects, and linkages;**
- **maintenance of adequate resources in the GASS and the new and on-going infrastructure projects; and**
- **implementation of the COVID-19 interventions**

The NVSU Quality Management Audit conducted an Internal Quality Audit on November 22-23, 2021, to assess the extent of utilization of the various processes with specific Standard Operating Instructions (SOI) and the specific clauses in the Quality Management System (QMS). Eighty-one internal auditors of 27 teams audited 83 process documents from 72 identified units and offices under instruction, research, extension, and production. Recommendations were incorporated to comply with the QMS tasks.



# ACADEMIC INTERVENTIONS DURING THE PANDEMIC

Since the effect of Covid-19 pandemic disease was still raging, the Flexible Learning Strategies (FLS) was implemented. Lessons were prepared through modules and were delivered in soft or hard copies to the students and these were backed up with online tutorials through platforms accessible to the students. To assess the implementation of the FLS, an evaluation through a survey involving students, faculty, and parents was conducted. The components evaluated using the NVSU-FRVAA-02: Feedback Form included the following:

**Admission and Registration** – This focused on the enrolment procedure of the university.

**Method of Learning** – The university used a modular approach as a flexible learning strategy in undergraduate programs.

**Academic Integrity** – Academic integrity is the commitment to and demonstrating honest and moral behavior in an academic setting. This is most relevant at the university level as it is related to providing credit to other people when using their ideas. In simplest terms, it required acknowledging other people's contributions (The Writing Center, the University of North Carolina at Chapel Hill, n.d.).

**Support Services** – This covered the provision of support to the students and faculty.

Components	1st Semester, AY 2020-2021				2nd Semester, AY 2021-2022			
	Mean Rating			QD	Mean Rating			QD
	Students	Faculty	Overall		Students	Faculty	Overall	
Admission and Registration	3.91	3.75	3.83	S	3.91	3.94	3.92	S
Method of Learning	3.83	4.00	3.92	S	3.80	4.34	4.07	S
Academic Integrity	3.89	3.54	3.71	S	3.93	3.81	3.95	S
Support Services	3.88	3.33	3.61	S	3.92	3.63	3.78	S
Overall Mean Rating of the Implementation of Flexible Learning Strategies of NVSU	3.88	3.66	3.77	S	3.89	3.93	3.93	S
Overall Mean Rating for the Feedback Form on the Implementation of the Flexible Learning Strategies of NVSU	OVERALL MEAN RATING 3.85				QUALITY DESCRIPTION Satisfied			

The result displayed in the table shows that the three components obtained an overall rating of 3.85 with a qualitative description of "Satisfied".

# STUDENT PERFORMANCES

Several students of both campuses had the opportunity to participate in national, regional, and local competitions triumphantly. Notably, participants in the Regional and National Innovation Olympics 2.0 with their entry entitled, "Automated Irrigation and Nutrient Management System (AIRIN)" were adjudged **GRAND CHAMPION**. The national event was held at SEARCA, University of the Philippines-Los Baños. The table below shows other awards achieved by student participants in various competitions at the national and regional levels.

In order to improve the FLS, all students were distributed with "On-the-Go" (OTG) flash drives where they could store lessons.

Through a proposal, the university acquired a

## PHP 7.2 MILLION

support from the CHED to upgrade the two campuses' backbone to fiber optic. This has strengthened the internet connectivity of the university for a blended teaching-learning scheme.

Name	Award	Date and Venue	Category
<b>BAMBANG CAMPUS</b>			
Jaime Hapicio Maricel M. Farro Daniel Labaddan William John Tabdo	Grand Champion Innovation Olympics 2.0; Entry: Automated Irrigation and Nutrient Management System (AIRIN)	October 15, 2021/SEARCA, University of the Philippines Los Baños	National
Byran Rey Visaya Rhojay P. Jamon Marwin R. Jallorina Foster F. Talwag Jolix Hay D. Dulnuan	First Runner Up, Programming Competition (C++Category) 5th ICpEP CpE Challenge	ISU Cabagan Campus, Cabagan, Isabela December 10, 2021	Regional
Mike A. Antonio	Top 50 A-LIST JHTMAP	JTHMAP Booth Camp, December 6, 2021	Regional
Myka M. Fragata Maricel M. Farro Jaime E. Hapicio Jr. Marwin R. Jallorina	Champion, National LINC Innovation Challenge Competition in the 4th International Research Conference on Innovations in Engineering, Science and Technology, IRCIEST 4.0 (Student Category)	Batangas State University December 6, 2021	National
<b>BAYOMBONG CAMPUS</b>			
Anjaneth V. Ducusin Perfecto D. Daguio Jr.	1st place, Sabatan Virtual Business Pitch Competition	July 30, 2021 NVSU Sabatan Center	Regional
Jiver Dhaiynz	2nd Place, Sabatan Virtual Business Pitch Competition	July 30, 2021	Regional



# STUDENT AFFAIRS SERVICES

The Office of Student Affairs & Services (SAS) proposed several revisions to existing policies, prepared guidelines, and created plans for the development and welfare of the students. These included the following:

The SAS Manual of Operations, The Enhanced Implementing Rules & Regulations of SAF 2021, The Implementing Rules & Regulations for the Issuance of OTG Flash Drives to NVSU students, The Implementing Rules & Regulations on the Accountability of Students for University Property, The Matrix for the Receipt of NVSU Student Handbook by students, The Guidelines for the Conduct of the Orientation Comprehension Test, and The NVSU SAS Programs Continuity Plan.

The Office of the Student Affairs Services was also crucial in the preparation of the semestral virtual orientation live webcasts on the Official NVSU Facebook Page (FB) on December 6, 2021 and on NVSU YouTube Channel on December 10, 2021.



The **University Supreme Student Council (USSC)** Online Elections for Academic Year 2021-2022 was conducted through the duly approved USSC Online Election Code. The election was held on December 6-7, 2021, in Bambang Campus, while on December 9-10, 2021 in Bayombong Campus.

To further improve policy-making expertise, the SAS Director attended the training on Basic Policy Process by the Development Academy of the Philippines. Likewise, Director Angel Genato IV was renewed as an Individual Member of the Philippine Association of Practitioners of Student Affairs & Services, Inc. until June 2023. This corresponds to the renewal of NVSU as an institutional member of the same association.

The **16th Commencement Exercises** was also virtually made possible through a webcast via the NVSU FB and NVSU YouTube Channel on July 16, 2021 and July 19, 2021 for Bayombong and Bambang Campuses, respectively. Student Affairs Services Moreover, the Student Affairs Services assisted the Health Services Unit and the Alumni Relations Office in surveying the COVID-19 vaccination status of students and prepared and disseminated the online graduate information form, respectively.

# LIBRARY SERVICES

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Continuing acquisition and collection of reading/reference materials were made to upgrade and update the university's library holdings.

A total of **604** book and **1,444** non-book materials were acquired through regular purchase, subscription, and donation by benevolent individuals.

Senator Cynthia Villar donated **327** copies of books and journals comprising **163** titles and a complete set of Lenovo Desktop Computer



The donation was a response to the request of **Hon. Ruth R. Padilla**, OIC President of NVSU, for assistance in upgrading and strengthening the university's learning resources. **Dr. Rogelio Felix** sent the second batch of his book donations mainly to be used by faculty and students of the College of Business Education.



## ACADEMIC AFFAIRS



## SPORTS AND DEVELOPMENT

The Office of the Sports and Development (SD), through its director, initiated some physical activities during the pandemic. Outdoor physical activities like walking and Zumba for faculty and staff were done every Friday.

Walking for at least 30 minutes to one hour every Friday afternoon were made within the premises of the university and the Provincial Sports Complex while the Zumba was conducted monthly, at the Administration Building. In preparation for the new normal where face-to-face activities will be allowed, implementing rules and regulations for sports activities were crafted for approval. A proposal for a University Sports Complex was submitted to possible benefactors for funding.



## LINKAGES

The College of Agriculture was able to generate an amount of PHP 500,000.00 from the CHED- National Agriculture and Fisheries Education System (NAFES) for academic facilities enhancement.

In addition, the university entered into a memorandum of understanding/agreement with the following:

- Heavenly World Peace Restoration of Light (HWPL) is related to the integration of Peace Studies/Education into relevant higher education curricula of the University.
- School Policy Studies, Kwansei Gakuen University, Gakuen, Sanda, Hyogo, Japan for academic cooperation in terms of the Philippine Fieldwork Program, Faculty Exchange Program, and Socio-cultural Program.



# RESEARCH, EXTENSION & TRAINING

Despite the pandemic, the Research, Extension, and Training Program (RET) continued to commit as a vital partner for community development in the local, regional, and national fronts.

Research endeavors have been marked by an unwavering pursuit of breakthroughs pushing the boundaries of knowledge. Esteemed faculty members have been at the forefront of cutting-edge research, making pioneering contributions across diverse disciplines. It has laid the groundwork for real-world applications, transformative technologies, and evidence-based policy recommendations. Equally important is the university's commitment to extending the knowledge gained from research to benefit our local, regional, and global communities. The research extension programs facilitate the dissemination of information, technologies, and best practices, ensuring that the impact of our research reaches those who can benefit most. The gap between theory and practice, making tangible positive changes in various sectors would be bridged by engaging with stakeholder, industry partners, policy makers and communities.

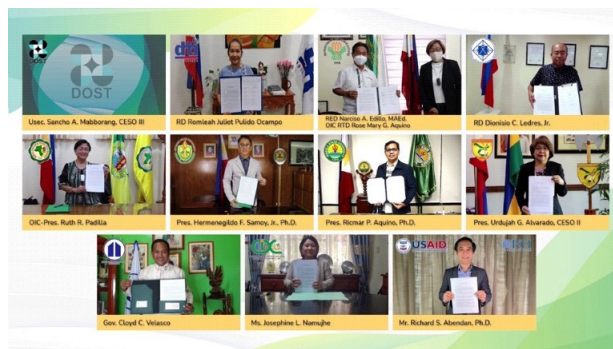


# RET HIGHLIGHTS

## SHINE CAGAYAN VALLEY LAUNCHING

The Nueva Vizcaya State University (NVSU) hosted the virtual launching of the **Cagayan Valley Regional Inclusive Innovation Center (CVRIIC)** Program dubbed “Sustaining Harvest through Innovation a Enterprise” or “SHINE Cagayan Valley” on June 15, 2021, via Zoom platform.

This is one of the Regional Inclusive Innovation Centers (RIICs) expansion sites. The region-wide center will be implemented by the Philippine Chamber of Commerce (PCCI)-Cagayan as the lead agency in partnership with the Cagayan Valley Citrus Industry Development Council (CVCIDC). It also brings together government partners from DOST R02, Department of Trade and Industry (DTI), Department of Agriculture (DA), and National Economic and Development Authority (NEDA); academic partners from NVSU, Isabela State University (ISU), and Quirino State University (QSU), and Cagayan State University (CSU); and industry partners from PCCI, and the CVCIDC with support from USAID Science, Technology, Research and Innovation for Development (STRIDE).



With funding support from DOST R02 and DTI amounting to PhP 1,000,000.00 and PhP 500,000.00 respectively, the project is going to propel innovation convergence in the region with particular focus on citrus industry. It hopes to rally expertise, infra support systems and innovation and micro entrepreneurship towards industry needs under stronger partnerships of Government Institutions, Industry Players and the Academe.

## RDE PROPOSAL WRITESHOP

Despite the lockdown imposed on the main campus, Nueva Vizcaya State University's Research, Extension, and Training successfully hosted an online two-day RDE Proposal Writeshop for faculty and staff on September 23-24, 2021, via Zoom. This activity aimed to help aspiring researchers write fundable project proposals that align with the RDE Agenda of NVSU Colleges and external funding agencies.



### “ONEDA” REFORM AGENDA

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Dr. William C. Medrano, Undersecretary for Livestock of the Department of Agriculture (DA) visited the Nueva Vizcaya State University (NVSU) on August 11, 2021.

He discussed the "OneDA Reform Agenda" which aimed to empower farmers and fisherfolks for a more resilient Philippines through consolidation, modernization, industrialization, and professionalization.

He further elaborated on the 18 essential strategies to realize this program of the DA, and discussed entry points of State Universities and Colleges to access DA funds. The discussions underlined NVSU's responsibility in producing technologies that would create impact to the lives of the Vizcayanos and NVSU's critical and important function as an engine of economic growth. He further encouraged for the continual improvement of NVSU's research and extension programs, especially in responding to the current situation on African Swine Fever through the "Swine Repopulation Program" and "Bantay ASF sa Barangay."



### NVSU-UCES CERTIFICATION

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The Department of Agriculture-Agricultural Training Institute-Regional Training Center II (DA-ATI-RTC II) awarded the Certificate of Rice Competitiveness Enhancement Fund-Learning Site for Agriculture (RCEF-LSA) to the Nueva Vizcaya State University (NVSU) on August 26, 2021. The certificate was awarded by Jhimcelle V. Salvador, Development Management Officer II of DA-ATI-RTC II and was received by Hon. Ruth R. Padilla, NVSU Officer In-Charge. Other NVSU officials present during the awarding ceremonies were Dr. Wilfredo A. Dumale, Jr., Vice President for Research, Extension and Training, Dr. Maribel S. Bacena, Director for Extension and Training, and Dr. Agustin B. Lunag, Focal Person for the NVSU LSA.

The establishment of RCEF-LSA is a component of the four key programs of the RCEF, which was created through RA 11203 to improve rice farmers' competitiveness and income amidst the liberalization of rice trade. The certification of the NVSU-University Central Experiment Station (UCES) as RCEF-LSA would strengthen NVSU's extension and training services, which would result in more clientele, especially the rice farmers as beneficiaries of the RCEF. Through the NVSU-RCEF-LSA, it is hoped that the capabilities of rice farmers on modernized inbred rice and seed production and other relevant skills will be enhanced for improved competitiveness, productivity, and income.



## RESEARCH, EXTENSION & TRAINING

### 18TH UIHR

Despite the COVID-19 challenges, NVSU enriched its RDE culture as it celebrated its 18th University In-House Review (UIHR) conducted virtually via Zoom and was cast live on Facebook on September 9-10, 2021.



**39** papers in the fields of research, development, higher education, and social sciences where **25** were completed and **14** are ongoing



Vice President for Research, Extension and Training, **Dr. Wilfredo A. Dumale, Jr.**, graduated as Class Valedictorian during the 21st Graduation Ceremony of Diploma in Development Management held on October 15, 2021, via Zoom of the Public Management Development Program-Senior Executives Class of the Development Academy of the Philippines. His paper entitled “Cyber “Ba”: Application of the SECI Model to Commercialization of Public-Funded Innovation” was also awarded as the Outstanding Capstone Paper (Innovation Project).



## AWARDS & RECOGNITION

The vlog titled, “eNVinture: Citrus Experience ng Nueva Vizcaya” created by Dr. Elbert A. Sana, Director for Citrus Resources Research and Development Center (CRRDC), Heniecy Ann B. Morts, and Dominic Q. Cardoniga won the Best AANR Vlog, which was part of the National Science and Technology Week 2021 of the Department of Science and Technology-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD). The video tackled NVSU’s initiative to nurture the citrus industry in the region and the country.



**Dr. Sony P. Aquino** was recognized as the 1st Place Winner of the **BANGHAY AWARD** for Outstanding Industrial Design for Pneumatic Grain Collector.

## PROJECT UPDATES

## RESOURCE GENERATION

8 externally-funded projects were approved for implementation in 2021, generating a total fund of

**PHP 25,315,314.00**

from DOST R02, PhilRice and DA-BAR.

Title	Proponent/s	Funding Agency	Budget (PhP)
Massive Seedlings and Seeds Production Program: Enhancing Food Supply through Household Level Vegetable Production in the New Normal	Maribel S. Bacena, Esmeraldo T. Razalan, Flora Joy B. Garcia, Roel M. Suriaga, Conrado R. Bascasas, Marigel J. Guzman, Carlito D. Jorge, Jr., Jovielyn M. Guillermo, and Wiltrudes C. Ampat	DA-RFO II	PHP 2,000,000.00
Establishing a Viable Enterprise using Free Range Chicken Production Technology in Nueva Vizcaya	Rafael Luis F. Morillo, Vernadyn A. Morillo, Lai Lanie A. Cungihan, Flora Joy B. Garcia, Maribel S. Bacena, and Ramon P. Bangao, Jr.	DA/ACEF	PHP 5,000,000.00
Increasing Availability of Swine Quality Stock Through Distribution and Upgrading of Swine Multiplier Farm in Nueva Vizcaya	Rafael Luis F. Morillo and Vernadyn A. Morillo	DA/ACEF	PHP 5,000,000.00
Prototyping Development of Selected Sabatan's Metal Technologies and Innovation: In Support of Agricultural Industries in Region 02	Cristina R. Salvosa	DOST-R02	PHP 1,000,000.00
Supply Chain Analysis of Pummelo in Selected Regions of the Philippines	Gayon P. Sarmiento	DOST-PCAARRD	PHP 967,280.00
Enhancing Biopesticide Efficacy of Entomopathogenic Fungi (EPF) Against Citrus Rind Borer (CRB) in Calamansi and Pummelo by Myco-synthesis of Bio-Nanoparticles	Jonar I. Yago	DOST-PCAARRD	PHP 10,348,034.00
Phase II – Development of a Novel Processing facility for the Conversion of Agricultural Products to Ethyl Alcohol and Organic Fertilizer	Lori Shayne A. Busa and Jose P. Comia, Jr.	DA-RFO II	PHP 1,000,000.00
Value Chain Analysis of Selected Commodities in Nueva Vizcaya	Cristina R. Salvosa, Rachel Hope R. Tionson, and Dolores B. Galvez	NV-PLGU	(Provision of Resources)
TOTAL			PHP 25,315,314.00

## COMPLETED PROJECTS

**17** researches were successfully implemented by the faculty researchers of the different colleges and RET personnel of both campuses.

Title	Proponent/s	Start Date	End Date
Assessment of Agri-based Cooperatives in Region 2	<i>Cristina R. Salvosa, Josue A. Chua, Daren S. Eraña, Fil-art Marie B. Baltazar, Rachel Hope R. Tiongson and Raffy P. Surat</i>	December 2019	January 2021
Field Testing, Pilot Scale Production and Market Study of Locally- Developed Bioinsecticide for Eggplant	<i>Ferdinand B. Arcala and Josue A. Chua</i>	April 2019	April 2021
Development of microfluidic paper-based analytical devices (μPADs) for the detection of diarrhea-causing pathogens in water	<i>Lori Shayne A. Busa, Jose R. Comia, Jr., Gina Leah A. Dizon and Daniel Marvin B. Ramel</i>	November 2018	August 2021
Development of a novel processing facility for the conversion of agricultural products to ethyl alcohol	<i>Lori Shayne A. Busa and Jose R. Comia</i>	November 2020	June 2021
Vegetable Seeds and Seedlings Production: Enhancing Food Supply through Household Level Vegetable Production in the New Normal	<i>Maribel S. Bacena, Esmeraldo T. Razalan, Flora Joy B. Garcia, Roel M. Suriaga, Conrado R. Bascasas, Marigel J. Guzman, Carlito D. Jorge, Jr., Jovelyn M. Guillermo, and Wiltrudes C. Ampat</i>	March 2021	June 2021
A Formative Evaluation of Pamana ti Nueva Vizcaya Scholarship Program Using Context, Input, Process and Product (CIPP) based Evaluation Plan	<i>Jacqueline V. Iglesias, Maria Jonem P. Gacad, and Imelda V. Iglesias</i>	January 2017	June 2021
Development and Verification of Soil and Water Management Strategies for Citrus	<i>Wilfredo A. Dumale, Jr., Jessie Pascual P. Bitog, Marnellie L. Pini, Jerwin D. Osdon, and Roval D. Butac</i>	November 2017	July 2021
Carbon Stocks of Trees at CFERM Arboretum	<i>Yolina T. Castañeto, Gerlyn P. Orpiano, and Elmer T. Castañeto</i>	August 2020	July 2021
Compliance to the Code of Ethics for Professional Teachers Among Faculty Members	<i>Juanita B. Pascua and Jane D. Navalta</i>	August 2018	September 2021
Extending NVSU e-services thru Wireless Connectivity: A COVID 19 Mitigation and Response	<i>Vilchor G. Perdido, Jacqueline V. Iglesias, Romeo P. Evangelista, Christopher A. Gurat, Maria Rousselle G. Jandoc, and Fidel G. Patricio, Jr.</i>	August 2020	July 2021
Component 3: A DepOvs Approach in Developing NVSU College			

## RESEARCH, EXTENSION & TRAINING

<i>Title</i>	<i>Proponent/s</i>	<i>Start Date</i>	<i>End Date</i>
Hospitality Management Students Preparedness and Industry Perspectives on Employability of Graduates	<i>Allen Mark A. Razalan, Rhea L. Adriatico, and Chrizel Mae V. Pagbilao</i>	September 2019	July 2021
Extending NVSU e-services thru Wireless Connectivity: A COVID 19 mitigation and response	<i>Romeo P. Evangelista, Christopher A. Gurat, Carmelo Alejo D. Bisquera, Vilchor G. Perdido, Flory Ann D. Patricio, Rodelyn M. Aguinaldo, and Jason Roy C. Irabagon</i>	October 2020	October 2021
NVSU-BIGAS Partnership for Banana Macro-propagation Technology Transfer	<i>Elbert A. Sana, Roel T. Dacanay, Analiza L. Esguerra, and Joy Lyn P. Dung-ao</i>	April 2019	September 2021
The Outlook of College of Business Education Alumni: A Tracer Study	<i>Chery C. Lacaden, Rachel Hope Tiongson, Cristina R. Salvosa, Daren S. Eraña, Dolores B. Galvez, and Aljanet Jandoc</i>	2017	2021
Student Evaluation of Instruction and Assessment During Covid-19 Pandemic	<i>Jane D. Navalta, Juanita B. Pascua, Josefina S. Sana, Cherry Ann P. Navalta, Marielo DG. Cadiz, and Jay-ar A. Castriciones</i>		September 2021
Empowering Community Through Development & Livelihood Project	<i>Florie Jean Vicente, Rhea Adriatico, Lourdes T. Capua, Teresita Barnagay, Susan Sierra, Ma. Teresa Fulgencio, Allen Mark Razalan, and Chrizel Mae Pagbilao</i>	2018	December 2021
Project Title: Value Chain Analysis of Selected Commodities in Nueva Vizcaya Study Title: Value Chain Analysis of Commercial Rice in Nueva Vizcaya	<i>Cristina R. Salvosa, Dolores B. Galvez, Claire R. Reginalde, and Mercedes B. Pumihic</i>	June 3, 2021	December 2021
Carbon Stocks of Trees at CFERM Arboretum	<i>Yolina T. Castañeto, Gerlyn P. Orpiano, and Elmer T. Castañeto</i>	August 2020	July 2021
Compliance to the Code of Ethics for Professional Teachers Among Faculty Members	<i>Juanita B. Pascua and Jane D. Navalta</i>	August 2018	September 2021
Assessment of Agri-based Cooperatives in Region 2	<i>Cristina R. Salvosa, Josue A. Chua, Daren S. Eraña, Fil-art Marie B. Baltazar, Rachel Hope R. Tiongson and Raffy P. Surat</i>	December 2019	January 2021



## ONGOING PROJECTS

**28** researches, projects, and studies which were both externally and institutionally funded were implemented by researchers of the University.

Title	Proponent/s
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, Jose R. Comia Jr., Jo-Eliz M. Gonzales, Ralyn A. Bating, Alvin V. Galamay, and Archie Mar G. Valdez
Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub	Cristina R. Salvosa, Wilfredo A. Dumale, Jr., Daren S. Eraña, Flormelyn D. Tumenez, Blesila A. Ramos, Noemi B. Binuhi, and Camilo C. Dela Cruz, Jr.
PHASE 2 - KLABS 21: A Web-based Trading System of Fruits and Vegetables	Ian Kim P. seligbon, Percival B. Labog, and Ryan Victor D. Bautista
Development of Formulated Entomopathogenic Fungi (EPF) as Biofungicide Against Tomato Black Leaf Mold (TBLM)	Jonar I. Yago, Ramon P. Bangao, Jr., and Fil-art Marie B. Baltazar
A Community-Based Enterprise on Instant Tilapia Cream Soup Production and Commercialization	Chery C. Lacaden, Gina Leah A. Dizon, Cristina R. Salvosa, and Ramon P. Bangao, Jr.
Enhancing Tissue Culture and Macropropagation of Saba: Cagayan Valley's Planting Material Support System for Banana	Elbert A. Sana
NVSU IP-TBM Phase II: Sustaining the Nueva Vizcaya State University Intellectual Property and Technology Business Management Operations (NVSU IP-TBM) through Patent Mining of Citrus Commodity	Blesila R. Ramos
Phase II - Development of a Novel Processing Facility for the Conversion of Agricultural Products to Ethyl Alcohol and Organic Fertilizer	Lori Shayne A. Busa and Jose R. Comia Jr.
Prototyping Development of Selected Sabatan's Metal Technologies and Innovation: In Support of Agricultural Industries in Region 2	Cristina R. Salvosa
Establishing a Viable Enterprise using Free Range Chicken Production Technology in Nueva Vizcaya	Rafael Luis F. Morillo, Vernadyn A. Morillo, Lai Lanie A. Cungihan, Flora Joy B. Garcia, Maribel S. Bacena, and Ramon P. Bangao, Jr.
Increasing Availability of Swine Quality Stock Through Distribution and Upgrading of Swine Multiplier Farm in Nueva Vizcaya	Rafael Luis F. Morillo and Vernadyn A. Morillo
Enhancing Tissue Culture and Macropropagation of Saba: Cagayan Valley's Planting Material Support System for Banana	Elbert A. Sana
Vermiponics Technology for Organic Leafy Vegetable Production	Rogelio P. Pascua, Elmer T. Castañeto, and Yolina T. Castañeto
NVSU Waste Assessment and Characterization System: A Benchmark Study for the Acceptability of the University Solid Waste Management Program	Rogelio P. Pascua and Elmer T. Castañeto
Revisiting Cultural Transition: Mapping of Significant Religious Artifacts in Bayombong, Nueva Vizcaya, Philippines	Elson Boie Tumaneng and Romana P. Dulnuan

## RESEARCH, EXTENSION & TRAINING

Title	Proponent/s
Flowing Down Magat River: The Story of Five Tributaries	Joan A. Piñon
Climate-Change Mitigation Practices' Audit of Hospitality Establishment in Nueva Vizcaya: The Application of ASEAN Green Criteria	Marcelino T. Razalan, Jr., Allen Mark A. Razalan, Rhea L. Adriatico, and Chrizel Mae V. Pagbilao
Correlates between the Four Models of Cultural Intelligence among Teachers of Secondary Educational Institution in Nueva Vizcaya	Imelda S. Ocampo and Lionel Luis F. Dumelod
Bioethanol Production from Citrus Waste	Adornado C. Vergara
Extent of Pineapple Industry in the Province of Nueva Vizcaya	Adornado C. Vergara
Professional Development as Correlate with Performance Commitment among Faculty Members of a State University in Cagayan Valley	Jenifer Raymond R. Tallungan and Martia F. Fernandez
Development of e-KIDLAT: A Management Information System for the National Service Training Program	Ian Kim P. Seligbon, Deomedes S. Ranjo, Jr., and Hilario M. Esteban
Redesigning of Computer Programming Syllabus Based on CDIO Concept	Irel V. Derije and Vilma Santos
Organoleptic Characteristics and Acceptability of Goby Sardines in Tomato Sauce	Dondon T. Dagdag
Development of IMSOS: A Supply Office Inventory Management System	Irel V. Derije, Ian Kim P. Seligbon, and Vilma M. Santos
The Multi-Purpose Weaving Loom	Deomedes S. Ranjo, Jr.
Development and Performance Evaluation of a Portable Essential Oil Extractor	Fitzgerald L. Fabelico and Frankie M. Ramos
Phytochemical, antioxidant, cytotoxic, and antimicrobial properties of endemic dagwey ( <i>Saurauia subglabra</i> Merr.) of the Philippines	Fitzgerald L. Fabelico

## APPROVED PROPOSALS FOR FUNDING

Title	Proponent/s	Funding Agency	Budget (Php)
NVSU Seamless Unified DOST Project M&E thru Communication System Upgrades	Wilfredo A. Dumale, Jr., Josue A. Chua, Gina Leah A. Dizon, Flora Joy B. Garcia, Ramon P. Bango, Jr., and Analiza L. Esguerra	DOST-PCAARRD	PHP 1,610,600.00
Nueva Vizcaya Studies on Heritage, Environmental Resources Management, and Promotions	Wilfredo A. Dumale, Jr., Marichelle O. Costalles, Romana P. Dulnuan, Rhea L. Adriatico, Arshiela G. Manuel, Mild R. Hombrebueno, Elson Boie Tumaneng, Chrizel Mae V. Pagbilao, and Mikara Kaye J. Dulay	CHED	PHP 23,790,531.00
TOTAL			PHP 25,401,131.00

# ENHANCING TISSUE CULTURE AND MACRO-PROPAGATION OF SABA: CAGAYAN VALLEY'S PLANTING MATERIAL SUPPORT SYSTEM FOR BANANA

Project Leader: Dr. Elbert A. Sana

A total of 2,606 macro-propagated and 5,891 tissue culture-derived plantlets were produced per institution after a year of project implementation. Production has not been maximized yet, especially in tissue culture, because of oxidation problems encountered in tissue browning. This usually occurs in Saba but not in other banana cultivars like Lakatan or Bungulan. The project team addressed this through early sub-culturing and using metabisulfite and ascorbic acid. The standard alternative protocol for the gel rite is expensive and not a practical component reagent for tissue culture. Macro-propagated and Tissue Cultured Saba Plantlets were produced from the project.

<i>Institution</i>	<i>Macro-propagated Plantlets</i>	<i>Tissue Cultured Plantlets</i>
Quirino State University	1,450	2,996
Cagayan Valley Research Center	520	1,027
Nueva Vizcaya State University	636	1,868
<b>Total Number of Plantlets</b>	<b>2,606</b>	<b>5,891</b>

The project also established the Saba Techno-showcase Farms. Out of the nine targeted farms, eight had already been set up (three in Nueva Vizcaya by NVSU, three in Isabela by CVRC, and two in Quirino by QSU). It provided planting materials, technical assistance, and additional labor force during land clearing, lay-outing, digging holes, basal application of compost, and planting. The project team in each province currently monitored the farms. The on-station set-up in CVRC was purposely established as a source of suckers for tissue culture and macro-propagation.



<i>Name of Farmer</i>	<i>Farm Location</i>	<i>Farm Size (m2)</i>	<i>No. of Plantlets</i>	<i>Date Established</i>
<b>NUEVA VIZCAYA</b>				
Alfredo G. Montoya	Masoc, Bayombong	2,000	100	July 29, 2021
Joel and Michelle D. Tinapay	Sawmill, Villaverde	2,000	100	August 3, 2021
Francisco A. Domingsil	District 04, Bayombong	2,000	100	October 8, 2021
<b>QUIRINO</b>				
Perfecto Dolojan	Diffun, Quirino	2,000	100	July 6, 2021
QSU Station	Diffun, Quirino	5,000	300	October 4, 2021
<b>ISABELA</b>				
Linda Agustin		2,000	100	August 20, 2021
SWIP SWISA Association	Mallig, Isabela	4,000	210	October 14, 2021
CVRC Station	Ilagan, Isabela	4,000	385	October 8, 2021

# HEIRIT: ESTABLISHMENT OF THE SABATAN THE NUEVA VIZCAYA STATE UNIVERSITY TECHNOPRENEURS HUB

Project Leader: Dr. Cristina R. Salvosa

**4** incubatees (Malachi Manufacturing Company: Fruit Harvester Pruner; CBE Entrepreneurs & Students Savings Cooperative: Spoodigo Fish Cream Soup; Prof Kimchi Food Products: Kimchi; and Tomato Processed Products –SA & G Food Products) had already graduated from the incubation program of the Sabatan Techno Hub.

There were **10** active incubatees who are underwent with the incubation program.

On its third year of operation, the Sabatan has **15** incubatees and

**21** technologies were actively enrolled in the Incubation program of the NVSU Sabatan Technohub but four graduated from the incubation program.



## PROTOTYPING DEVELOPMENT OF SELECTED SABATAN'S METAL TECHNOLOGIES AND INNOVATION: IN SUPPORT TO AGRICULTURAL INDUSTRIES IN REGION 02

The NVSU SABATAN conducted market validation and market linkage to potential industrial users and individuals and a Techno-exhibit and forum for the showcase of technologies and invited potential investments for the following technologies/incubatees:

- **Lingkod Bayan Green Energy** (Day and Night Insect Trapper)
- **Bueno Integrated Farm** (Mushroom Fruit Bagger)
- **Malachi Manufacturing Company** (Manually Operated Two Row Multi-Purpose Hand Seeder)
- **Agrimor Industry** (Mango Bagger)



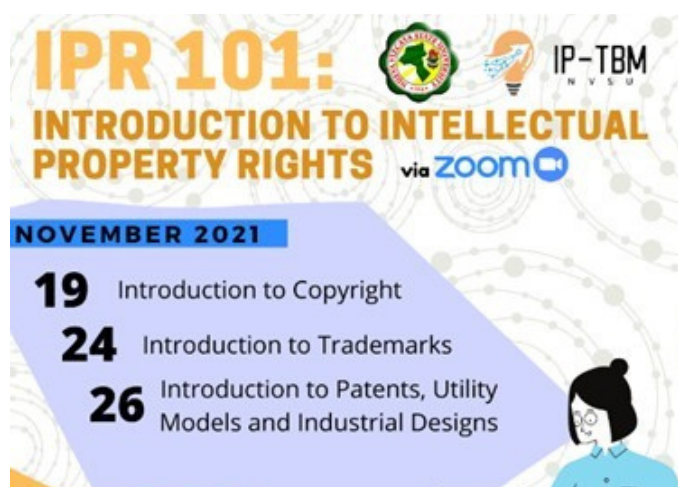


# NVSU IP-TBM PHASE II: SUSTAINING THE NVSU INTELLECTUAL PROPERTY AND TECHNOLOGY BUSINESS MANAGEMENT OPERATIONS THROUGH PATENT MINING OF CITRUS COMMODITY

Project Leader: Dr. Blesila R. Ramos

## IPR 101: Introduction to Intellectual Property Rights

The project conducted a webinar entitled “IPR 101: Introduction to Intellectual Property Rights” last November 19, 24, and 26, 2021. Members of the IPTBM Phase 2 Project Team served as resource speakers for the different topics on Copyright and Trademarks and on Patents, Utility Models, and Industrial Designs. The Officer-in-Charge for Research and Development, Dr. Jessie Pascual P. Bitog, also shared his experience in filing trademarks to encourage colleagues to apply for intellectual property and to know their rights.



## Claims Drafting Workshop

After the IPR101 webinar, the IP Claims Drafting Workshop was facilitated to teach interested students and individuals on how to write claims for IP Protection. Through this activity, participating claims became entries to the Regional Invention Contest and Exhibit (RICE). The Intellectual Property Rights and Technology Business Management (IP-TBM) office significantly contributed to preparing documents and videos for the contest and exhibit.

The Intellectual Property Rights and Technology Business Management (IP-TBM) Office significantly contributed to preparing documents and videos for the Regional Invention Contest and Exhibit (RICE) conducted in December.

**2** technologies participated in the Unlad Awards for the Outstanding Utility Model Contest:  
**Dr. Ferdinand B. Arcala's Organic Pesticide, and, Dr. Vernadyn A. Morillo's Water Supplement for Poultry**

**2** technologies also participated in the Banghay Awards for the Outstanding Industrial Design Contest:  
**Dr. Sony P. Aquino's Pneumatic Grain Collector, and, Dr. Angelito D. Agrimor's Multi-fruit Harvesting and Pruning Device**

# KLABS21 PHASE 2: A WEB-BASED FRUITS AND VEGETABLES TRADING SYSTEM

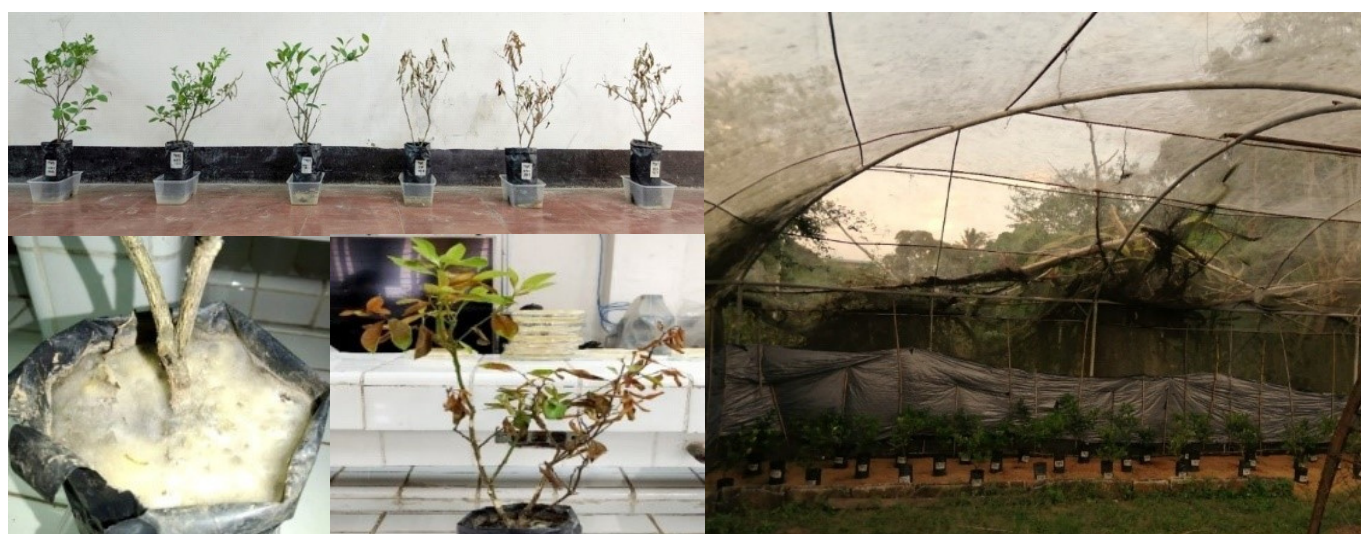
Project Leader: Mr. Ian Kim P. Seligbon

This project was with the Department of Science and Technology Region 02 and the Nueva Vizcaya Agricultural Terminal Inc. (NVAT) as an e-commerce portal, through [www.nvkrops.com](http://www.nvkrops.com), that delivers fresh fruits and vegetables in Nueva Vizcaya. Currently under beta-testing, the project had currently identified, reviewed, and updated initial database tables, views, functions, triggers, components, sub-components, functions, and features for fruits, vegetables, fisheries, grains, livestock, NVFarms, end-users, and admin and drafted and designed the initial graphical user interface.

## PHILIPPINES ISOLATES OF ENTOMOPATHOGENIC FUNGI AS POTENTIAL SOURCE OF MICROBIAL AGENT AGAINST CITRUS RIND BORER (CRB) AND TWIG BLIGHT DISEASE (TBD) OF CITRUS

Project Leader: Dr. Jonar I. Yago

In healthy potted citrus plant assay, a visible white to light orange mycelia at the base of the plant, wilting, chlorosis that eventually turned to dark brown, leaf defoliation, and dieback were observed in test plants inoculated with Hh in 25-32 days' post-inoculation. In detached leaf assay, aggressive symptoms were observed in seven days of post-inoculation in which leaves turned dark brown starting from where the mycelial disc was placed and eventually scattered across its surface. Also, macro and micro conidia of the Hh pathogen were detected under the microscope.



Screenhouse trial was conducted using the two EPF utilizing its culture filtrate and conidial suspension towards TBD using healthy potted calamansi plant in reducing the DI and DS which showed 89-96% control against TBD.

## AWARDS & RECOGNITION

Researchers were recognized for their research outputs and contributions in the international, national, regional and local levels. In total, there were 15 awards received.

<i>Title of Award</i>	<i>Title of Research Output</i>	<i>Proponent/ Researcher</i>	<i>Awarding Body/Venue</i>	<i>Date</i>
<b>LOCAL</b>				
1st Place, Best Paper for Research Category	<i>Carbon Stock of Trees at NNSU Arboretum</i>	<i>Yolina T. Castañeto, Gerlyn P. Orpiano, and Elmer T. Castañeto</i>	NVSU/ Virtual	September 9-10, 2021
2nd Place, Best Paper for Research Category	<i>P5: Development and Verification of Soil and Water Management Strategies for Citrus Production</i>	<i>Wilfredo A. Dumale, Jr., Jessie Pascual P. Bitog, Marnellie L. Pini, Roval D. Butac, and Jerwin D. Osdon</i>	NVSU/ Virtual	September 9-10, 2021
3rd Place, Best Paper for Research Category	<i>Field Testing, Pilot Scale Production and Market Study of Locally-Developed Bioinsecticide For Eggplant</i>	<i>Ferdinand B. Arcala and Josue A. Chua</i>	NVSU/ Virtual	September 9-10, 2021
1st Place, Best Paper for Development Category	<i>NVSU-Bigas Partnership for Banana Macro-Propagation Technology Transfer</i>	<i>Elbert A. Sana, Analiza L. Esguerra, Rowell T. Dacanay, Joy Lyn P. Dung-Ao, Freddie A. Ojano, and Wilson B. Oligo</i>	NVSU/ Virtual	September 9-10, 2021
2nd Place, Best Paper for Development Category	<i>Extending NVSU E-Services Thru Wireless Connectivity: A Covid-19 Mitigation and Response</i>  <i>Component 1: Design of Network Infrastructure of The Project Covering Selected MLGUs In Nueva Vizcaya</i>	<i>Romeo P. Evangelista, Carmelo Alejo D. Bisquera, Vilchor G. Perdido, Rodelyn M. Aguinaldo, Renato V. Sales, Christopher A. Gurat, Napoleon M. Mendoza, Flory Ann D. Patricio, Jason Roy C. Irabagon, Armilyn H. Wais, Nilda N. Dela Cruz, Jyrus D. Cadiente, Emmanuel Danguilan, Michael R. Lacar, Lemuel C. Sanchez, Carlita G. Segundo, And Laarni O. Bartolome</i>	NVSU/ Virtual	September 9-10, 2021
3rd Place, Best Paper for Development Category	<i>Vegetable Seeds and Seedlings Production: Enhancing Food Supply Through Household Level Vegetable Production in the New Normal</i>	<i>Guzman, Carlito D. Jorge, Jr., Jovelyn M. Guillermo, And Wiltrudes C. Ampat</i>	NVSU/ Virtual	September 9-10, 2021
1st Place, Best Paper for Social Science Category	<i>Kalanguya Oral Narratives: Repertory of Literary Footmarks and Their Sociocultural Devices</i>	<i>Jenifer Raymond R. Tallungan, Girlie F. Salas, and Mercy T. Las Marias</i>	NVSU/ Virtual	September 9-10, 2021
2nd Place, Best Paper for Social Science Category	<i>Caught in the Middle: Doing Research with Indigenous Cultural Communities and the Government</i>	<i>Lorna L. Oligo and Jubert B. Oligo</i>	NVSU/ Virtual	September 9-10, 2021

## RESEARCH, EXTENSION & TRAINING

<i>Title of Award</i>	<i>Title of Research Output</i>	<i>Proponent/ Researcher</i>	<i>Awarding Body/Venue</i>	<i>Date</i>
<b>LOCAL</b>				
3rd Place, Best Paper for Social Science Category	<i>A Formative Evaluation (Context and Input) of Pamana ti Nueva Vizcaya Scholarship Program: A Proposed Context Input, Process and Product (CIPP) - Based Evaluation Plan</i>	<i>Jacqueline V. Iglesias, Ma. Jonem P. Gacad, and Imelda V. Iglesias</i>	NVSU/ Virtual	September 9-10, 2021
1st Place, Best Paper for Higher Education Category	<i>Task-Based Learning Approach and Assessment Skills of Prospective Teachers</i>	<i>Jenifer Raymond R. Tallungan</i>	NVSU/ Virtual	September 9-10, 2021
2nd Place, Best Paper for Higher Education Category	<i>Outlook of College of Business Economics Alumni: A Tracer Study</i>	<i>Chery C. Lacaden, Rachel Hope R. Tiongson, and Daren S. Eraña</i>	NVSU/ Virtual	September 9-10, 2021
3rd Place, Best Paper for Higher Education Category	<i>Compliance to the Code of Ethics for Professional Teachers Among Faculty Members</i>	<i>Juanita B. Pascua and Jane D. Navalta</i>	NVSU/ Virtual	September 9-10, 2021
<b>REGIONAL</b>				
1st Place – Banghay Award for Outstanding Industrial Design	<i>Pneumatic Grain Collector</i>	<i>Sony P. Aquino</i>	TAPI and DOST 02/ Virtual - RICE Cagayan Valley	December 14-16, 2021
2nd Place – Banghay Award for Outstanding Industrial Design	<i>Multi-Fruit Harvesting and Pruning Device</i>	<i>Sony P. Aquino, Angelito D. Agrimor, Emmanuel D. Reyes, Eddie C. Tampoya</i>	DOST-TAPI 02/ Virtual – RICE Cagayan Valley	December 14-16, 2021
<b>NATIONAL</b>				
Best Research Paper	<i>Growth Performance and Immunity of Nile Tilapia (<i>Oreochromis niloticus</i>) Fed with Fermented Satsuma (<i>Citrus reticulata</i>) Peels and Pulps Juice as Diet Supplement</i>	<i>Leofred C. Velasco</i>	National Conference on Agricultural Fisheries and Forestry 2021/ Virtual (Via Zoom)	November 4-5, 2021



# PROJECT UPDATES

## UNIVERSITY IN-HOUSE REVIEW

The University continues to promote the exceptional outputs of their 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 and presented these to their peers and external evaluators during the 18th University In-House Review of Completed and On-going projects last September 9-10, 2021 via Zoom. As a result, 37 papers of on-going and completed projects were presented under the Research, Development, Higher Education and Social Sciences.

<i>Title</i>	<i>Presenter/ Proponents</i>
Field Testing, Pilot Scale Production and Market Study of Locally-Developed Bioinsecticide for Eggplant	<i>Ferdinand B. Arcala and Josue A. Chua</i>
P5: Development and Verification of Soil and Water Management Strategies for Citrus	<i>Wilfredo A. Dumale, Jr., Jessie Pascual P. Bitog, Marnellie L. Pini, Jerwin D. Osdon, and Roval D. Butac</i>
Assessment of Agri-based Cooperatives in Region 2	<i>Cristina R. Salvosa, Josue A. Chua, Daren S. Eraña, Fil-Art Marie B. Baltazar, Rachel Hope R. Tiongson, and Raffy P. Surat</i>
Carbon Stocks of Trees at CFERM Arboretum	<i>Yolina T. Castañeto, Gerlyn Orpiano, and Elmer T. Castañeto</i>
Development of Microfluidic Paper-Based Analytical Devices (μPADs) for the Detection of Diarrhea-Causing Pathogens in Water	<i>Lori Shayne A. Busa, Jose R. Comia, Jr., Gina Leah A. Dizon, and Daniel Marvin B. Ramel</i>
Project Title: Value Chain Analysis of Selected Commodities in Nueva Vizcaya Study Title: Value Chain Analysis of Commercial Rice in Nueva Vizcaya	<i>Cristina R. Salvosa, Dolores B. Galvez, Claire R. Reginalde, and Mercedes B. Pumihic</i>
Philippine Isolates of Entomopathogenic Fungi as Potential Source of Microbial Agents for Citrus Rind Borer (CRB) and Twig Blight Disease (TBD) of Citrus	<i>Jonar I. Yago, Jose R. Comia Jr., Jo-Eliz M. Gonzales, Ralyn A. Bating, Alvin V. Galamay, and Archie Mar G. Valdez</i>
Vermiponics Technology for Organic Leafy Vegetable Production	<i>Rogelio P. Pascua, Elmer Castaneto, and Yolina Castaneto</i>
N.V. S. U. Waste Assessment and Characterization System: A benchmarking marking study for the Acceptability of the University Solid Waste Management Program	<i>Rogelio P. Pascua, Elmer T. Castañeto, and Yolina T. Castañeto</i>
Development of a Novel Processing Facility for the Conversion of Agricultural Products to Ethyl Alcohol	<i>Lori Shayne A. Busa and Jose R. Comia, Jr.</i>
Enhancing the Intellectual Property and Technology Business Management (IP-TBM) Operations of Nueva Vizcaya State University	<i>Blesila R. Ramos and Josue A. Chua</i>

## RESEARCH, EXTENSION & TRAINING

Title	Presenter/ Proponents
"Pagadalan iti Barangay": A Unified Open College Towards an Interdisciplinary Approach to Research and Extension Continuum	<i>Blesila R. Ramos</i>
Vegetable Seeds and Seedlings Production: Enhancing Food Supply through Household Level Vegetable Production in the New Normal	<i>Maribel S. Bacena, Esmeraldo T. Razalan, Flora Joy B. Garcia, Roel M. Suriaga, Conrado R. Bascasas, Marigel J. Guzman, Carlito D. Jorge, Jr., Jovelyn M. Guillermo, and Wiltrudes C. Ampat</i>
Extending NVSU e-services thru Wireless Connectivity: A COVID 19 mitigation and response	<i>Romeo P. Evangelista, Christopher A. Gurat, Carmelo Alejo D. Bisquera, Vilchor G. Perdido, Flory Ann D. Patricio, Rodelyn M. Aguinaldo, and Jason Roy C. Irabagon</i>
Extending NVSU e-services thru Wireless Connectivity: A COVID 19 Mitigation and Response Component 3: A DepOvs Approach in Developing NVSU College	<i>Vilchor G. Perdido, Jacqueline V. Iglesias, Romeo P. Evangelista, Christopher A. Gurat, Maria Rousselle G. Jandoc, and Fidel G. Patricio, Jr.</i>
NVSU-BIGAS Partnership for Banana Macro-propagation Technology Transfer	<i>Elbert A. Sana, Roel T. Dacanay, Analiza L. Esguerra, and Joy Lyn P. Dung-ao</i>
A Community- Based Enterprise on Instant Tilapia Cream Soup Production and Commercialization	<i>Chery C. Lacaden, Gina Leah A. Dizon, Cristina R. Salvosa, and Ramon P. Bangao, Jr.</i>
Phase 2 KLABS21: A Web-based Trading System of Fruits & Vegetables	<i>Ian Kim B. Seligbon, Percival Labog, and Ryan Victor D. Bautista</i>
Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub	<i>Cristina R. Salvosa, Wilfredo A. Dumale, Jr., Daren S. Eraña, Flormelyn D. Tumenez, Blesila A. Ramos, Noemi B. Binuhi, and Camilo C. Dela Cruz, Jr.</i>
Vermicompost Production and Technology Dissemination	<i>Rogelio P. Pascua, Elmer T. Castañeto, and Jovien L. Ansibey</i>
Anaerobic Digestion: Energy Generation and Utilization for Increased Swine Productivity	<i>Sony P. Aquino and June C. Quipo</i>
Empowering Communities Through Development and Livelihood Project	<i>Florie Jean C. Vicente, Rhea L. Adriatico, Lourdes T. Capua, Teresita B. Barangay, Maria Theresa A. Fulgencio, Allen Mark A. Razalan, and Chrizel Mae V. Pagbilao</i>
CF Extension: Focused on Magapuy but reaching out many other clienteles	<i>Shierel F. Vallesteros</i>
The Outlook of College of Business Education Alumni: A Tracer Study	<i>Chery C. Lacaden, Rachel Hope R. Tiongson, Cristina R. Reyes Salvosa, Daren S Eraña, Dolores B. Galvez, and Aljanet Jandoc</i>
Compliance to the Code of Ethics for Professional Teachers Among Faculty Members	<i>Juanita B. Pascua and Jane D. Navalta</i>
Effectiveness of the Student Welfare Programs and Services of the Nueva Vizcaya State University Bambang Campus: 2016 – 2019 Graduating Students Perspicacity	<i>Carlo F. Vadil and Floralyn V. Agaran</i>
Effectiveness of the Student Development Programs and Services of the Nueva Vizcaya State University Bambang Campus: 2016 – 2019 Graduating Students Perspicacity	<i>Carlo F. Vadil and Shelita H. Jubay</i>

## RESEARCH, EXTENSION & TRAINING

<i>Title</i>	<i>Presenter/ Proponents</i>
Effectiveness of Other Institutional Student Programs and Services of the Nueva Vizcaya State University Bambang Campus: 2016 – 2019 Graduating Students Perspicacity	<i>Carlo F. Vadil and Serapio O. Castriciones</i>
Hospitality Management Students Preparedness and Industry Perspectives on Employability of Graduates	<i>Allen Mark A. Razalan, Rhea L. Adriatico, and Chrizel Mae V. Pagbilao</i>
Emotional Correlates in Second Language Learning among IP Students of a Multicultural Academic Community	<i>Jenifer Raymond R. Tallungan, Mary Gay T. Aguila, Eva Liza D. Basconcillo, Marita F. Bancual, and Girlie F. Salas</i>
Task-based Learning (TBL) Approach and Assessment Skills of Prospective Teachers	<i>Jenifer Raymond R. Tallungan</i>
Student Evaluation of Instruction and Assessment During Covid-19 Pandemic	<i>Jane D. Navalta, Juanita B. Pascua, Josefina S. Sana, Ms. Cherry Ann P. Navalta, Marielo DG. Cadiz, and Jay-ar A. Castriciones</i>
Caught in the Middle: Challenges in Doing Research with the Indigenous cultural Communities and the Government	<i>Lorna L. Oligo and Jubert B. Oligo</i>
Students' Gender and Sexuality in Nueva Vizcaya State University-Bayombong Campus	<i>Maria Rousselle G. Jandoc and Angel L. Genato IV</i>
Gender Responsiveness of Guidance and Counseling Centers Phase I	<i>Maria Rousselle G. Jandoc and Lorna L. Oligo</i>
Kalanguya Oral Narratives: Repertory of Literary Footmarks and their Sociocultural Devices	<i>Jenifer Raymond R. Tallungan, Girlie F. Salas and Mercy T. Las Marias</i>
A Formative Evaluation of Pamana ti Nueva Vizcaya Scholarship Program Using Context, Input, Process and Product (CIPP) based Evaluation Plan	<i>Jacqueline V. Iglesias, Maria Jonem P. Gacad, and Imelda V. Iglesias</i>

## REGIONAL

Title	Presenter/ Proponents	Title of Conference	Venue	Date
Carbon Stock of Trees at NNSU Arboretum	Yolina T. Castañeto, Gerlyn P. Orpiano, and Elmer T. Castañeto	32nd CVAARRD Regional Symposium on Research, Development and Extension Highlights (RSRDEH)	Via Zoom	November 9-10, 2021
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	32nd CVAARRD Regional Symposium on Research, Development and Extension Highlights (RSRDEH)	Via Zoom	November 9-10, 2021
NVSU-Bigas Partnership for Banana Macro-Propagation Technology Transfer	Elbert A. Sana, Analiza L. Esguerra, Rowell T. Dacanay, Joy Lyn P. Dung-Ao, Freddie A. Ojano, and Wilson B. Oligo	32nd CVAARRD Regional Symposium on Research, Development and Extension Highlights (RSRDEH)	Via Zoom	November 9-10, 2021
Extending NVSU E-Services Thru Wireless Connectivity: A Covid-19 Mitigation and Response Component 1: Design of Network Infrastructure of The Project Covering Selected MLGUs In Nueva Vizcaya	Romeo P. Evangelista, Carmelo Alejo D. Bisquera, Vilchor G. Perdido, Rodelyn M. Aguinaldo, Renato V. Sales, Christopher A. Gurat, Napoleon M. Mendoza, Flory Ann D. Patricio, Jason Roy C. Irabagon, Armilyn H. Wais, Nilda N. Dela Cruz, Jyrus D. Cadiente, Emmanuel Danguilan, Michael R. Lacar, Lemuel C. Sanchez, Carlita G. Segundo, and Laarni O. Bartolome	32nd CVAARRD Regional Symposium on Research, Development and Extension Highlights (RSRDEH)	Via Zoom	November 9-10, 2021
Vegetable Seeds and Seedlings Production: Enhancing Food Supply Through Household Level Vegetable Production In The New Normal	Guzman, Carlito D. Jorge, Jr., Jovelyn M. Guillermo, and Wiltrudes C. Ampat	32nd CVAARRD Regional Symposium on Research, Development and Extension Highlights (RSRDEH)	Via Zoom	November 9-10, 2021
Morpho-Agronomic and Molecular Characterization of Traditional Rice Varieties (TRVs) in Nueva Vizcaya	Agustin B. Lunag	2nd Regional Agriculture, Fisheries & Natural Resources, Engineering & Technology Virtual Research Conference	Via Zoom	December 2-3, 2021
Growth Performance and Immunity of Nile Tilapia ( <i>Oreochromis niloticus</i> ) Fed with Fermented Satsuma ( <i>Citrus reticulata</i> ) Peels and Pulps Juice as Diet Supplement	Leofred C. Velasco	2nd Regional Agriculture, Fisheries & Natural Resources, Engineering & Technology Virtual Research Conference	Via Zoom	December 2-3, 2021

### NATIONAL

Title	Presenter/ Proponents	Title of Conference	Venue	Date
Molecular Diversity Analysis of Traditional Rice varieties (TRVs) in Nueva Vizcaya	Agustin B. Lunag	3rd Conference on Food, Environment, Engineering, and Technology (NCFEET)	Via Zoom	September 16-17, 2021
NVSU-BIGAS Partnership for Banana Macro-propagation Technology Transfer	Elbert A. Sana, et. al	28th National Symposium of the Philippine Fruit Association	Via Zoom	October 12-13, 2021
Geographic Information and Farming Practices of Traditional Rice Varieties in Nueva Vizcaya	Agustin B. Lunag	National Conference on Agriculture, Fisheries, and Forestry (NCAFF)	Via Zoom	November 4-5, 2021
Growth Performance and Immunity of Nile Tilapia ( <i>Oreochromis niloticus</i> ) Fed with Fermented Satsuma ( <i>Citrus reticulata</i> ) Peels and Pulps Juice as Diet Supplement	Leofred C. Velasco	National Conference on Agriculture, Fisheries, and Forestry (NCAFF)	Via Zoom	November 4-5, 2021

### INTERNATIONAL

Title	Presenter/ Proponents	Title of Conference	Venue	Date
Propagation of Lipote ( <i>Syzygium polycephaloides</i> ) Using Stem Cuttings	Yolina T. Castañeto and Elmer T. Castañeto	International Conference on Research Innovation and Investment (ICRII)	University of Science and Technology of southern Philippines (Via Zoom)	May 17-20, 2021
Image-based Leaf Area Measurement in GIS Software; and Comparison of Different Watershed Morphometric Parameters Derived from Different Data Sources	Arvin P. Vallesteros	International Conference on Green Agro-Industry and Bioeconomy (ICGAB) 2021	Malang, Indonesia (Via Zoom)	July 6-7, 2021
Image-Based Leaf Area Measurement in GIS Software	Shierel F. Vallesteros	International Conference on Green Agro-Industry and Bioeconomy (ICGAB) 2021	Malang, Indonesia (Via Zoom)	July 6-7, 2021



## RESEARCH, EXTENSION & TRAINING

Title	Presenter/ Proponents	Title of Conference	Venue	Date
Profiling the Farmer's Practices and Mapping of Traditional Rice Varieties in Nueva Vizcaya	Agustin B. Lunag	1st International Research Conference on Science, Technology, Education, and Management (IRCSTEM)	Via Zoom	September 29-30, 2021
Agritousim Management Practices in Nueva Vizcaya, Philippine	Evangeline H. Castro	International Conference on Applied Sciences, Engineering, Technology & Management		June 12-13, 2021

## POSTER PRESENTATION

Title	Presenter/ Proponents	Title of Conference	Venue	Date
Protecting a Critical Habitat for Birds: the Capisaan Caves Initiatives	Jason Q. Caranza	Online 2nd International Summit on Grey-faced Buzzard 2021 Miyakojima	Miyakojima City, Japan (Via Zoom)	October 16-17, 2021
Carbon Stock of Selected Trees at CFERM Arboretum	Yolina T. Castañeto	FORESPI's 16th International Conference on Forest Natural Resources Conservation	UPLB College, Laguna (Via Zoom)	October 27-29, 2021
Ulaian (Lithocarpus Ilanosii) Seedlings Grown in Mine Pit Soils	Yolina T. Castañeto	13th PNEE International Conference and Scientific Meeting	SESAM, UPLB College, Laguna (Via Zoom)	Nov. 11-12, 2021
Vermicomposting Using Invasive Terrestrial Plants	Yolina T. Castañeto	PSSN's 20th Annual Scientific Meeting and International Conference on Nature Studies and Innovations for environment (IConSIE)	Central Luzon State University Munoz, Nueva Ecija (Via Zoom)	Nov. 26-27, 2021

## PUBLICATIONS

The University continues to promote the exceptional works and inventions of the researchers in the international and national scale as marked by the

**31** R&D outputs published in various national and international journals.

## CITATIONS

There were **136** citations

from 54 scholarly published research articles of the University researchers .

# INTELLECTUAL PROPERTY RIGHTS

## INVENTIONS

<i>Title of Application</i>	<i>Authors/ Inventors</i>	<i>Class</i>	<i>Filing Date</i>	<i>Application No.</i>	<i>Status</i>
Manually Operated Seed Sowing Device	<i>Jiver Dhainyz Aubrelle B. Aquino, Sony P. Aquino, Jemaida B. Aquino, June C. Quipo, and Jessie Pascual P. Bitog</i>	<i>Patent</i>	<i>5/31/2021</i>	<i>12021050282</i>	<i>Ongoing</i>
Energy Recovery and Waste Treatment System	<i>Sony P. Aquino; Jemaida B. Aquino; June C. Quipo</i>	<i>UM</i>	<i>5/31/2021</i>	<i>22021050713</i>	<i>Published</i>
Pinoy Organisecticide	<i>Ferdinand B. Arcala</i>	<i>Trademark</i>	<i>2/25/2021</i>	<i>4202100504679</i>	<i>Registered</i>
Spoon Digo	<i>Gina Leah A. Dizon, Chery C. Lacaden, and Ramon P. Bangao, Jr.</i>	<i>Trademark</i>	<i>9/15/2021</i>	<i>4202100522031</i>	<i>Registered</i>

## COPYRIGHT

<i>Owner</i>	<i>Author</i>	<i>Title</i>	<i>Class</i>	<i>Registration No.</i>	<i>Date Created</i>	<i>Certificate Issued</i>
Michael Rocque-Lacar	<i>Michael Rocque-Lacar</i>	<i>Integrated Medical Data Record (iMDR)</i>	<i>N</i>	<i>N2021-01180</i>	<i>6/10/2020</i>	<i>8/17/2021</i>
Michael Rocque-Lacar	<i>Michael Rocque-Lacar</i>	<i>Integrated Student Management System (iSMS)</i>	<i>N</i>	<i>N2021-01181</i>	<i>8/2/2020</i>	<i>8/17/2021</i>
Michael Rocque-Lacar	<i>Michael Rocque-Lacar</i>	<i>LuckyPOS by LuckySoft V2</i>	<i>N</i>	<i>N2021-01182</i>	<i>5/10/2020</i>	<i>8/17/2021</i>

# ACTIVE LINKAGES

There were 44 active linkages for various Research, Development, and Extension projects, and collaboration for technical and extension projects with local, regional and national agencies for provision of resources, collaborative researches, and trainings this year.

Partner	Title of Collaborative Project	Duration
Department of Science and Technology Region 02	PHASE 2: KLABS 21: A Web-based Trading System of Fruits and Vegetables	2020-2021
Department of Agriculture—Agricultural Competitiveness Enhancement Fund	A Community-Based Enterprise on Instant Tilapia Cream Soup Production and Commercialization	2020-2022
Department of Agriculture – Bureau of Agricultural Research	Enhancing Tissue Culture and Macro-propagation of Saba: Cagayan Valley's Planting Material Support System for Banana	2021-2022
Quirino State University	Enhancing Tissue Culture and Macro-propagation of Saba: Cagayan Valley's Planting Material Support System for Banana	2021-2022
Department of Agriculture-Cagayan Valley Research Center	Enhancing Tissue Culture and Macro-propagation of Saba: Cagayan Valley's Planting Material Support System for Banana	2021-2022
AgrizKaya Cooperative Federation	Technical Assistance and Financial Literacy Program	2020- present
Barangay Barat, Bambang, Nueva Vizcaya	Skills Training	2020-2021
Timpuyog ti Babbalasang idi Kalman (TIBIK), Nueva Vizcaya	Development of Viable Science and Technology-based Rural Livelihood Enterprise	2020-2021
Mungia National High School	Basic Education/Functional Literacy, Livelihood and Technical Services, Sports and Wellness, Research and Statistics, Gender and Development	2020-2021
Balangon Integrated Growers Association of Sawmill (BIGAS)	Nursery Level Macro-propagation of Banana Plantlets	2020-2021
Barangay Local Government Unit of Magapuy, Bayombong, Nueva Vizcaya	Community Development	2020-2024
Amancio Agri-Tourism Academy, Inc.	Mushroom, Vegetable, Fruit Tree and Cutflower Production	2020-present
Bartolome Piggery Farm by Teresita N. Bartolome	Design and Establishment of NVSU Model Anaerobic Digester	2020- present
Community Livelihood Association of San Antonio South (CLASS)	Livelihood, Technology Transfer, Advisory Services and Trainings	2020-present
Ambong Piggery Farm	Construction of NVSU Model Anaerobic Digester	2020-2021
Department of Agriculture-Bureau of Agricultural Research	A Community-Based Enterprise on Instant Tilapia Cream Soup Production and Commercialization	2020-2021

## RESEARCH, EXTENSION & TRAINING

Partner	Title of Collaborative Project	Duration
DOST—Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development	<i>Citrus Resources Research for Development in Cagayan Valley Program</i>	2020-2021
LGU, Bayombong, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Kasibu, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Aritao, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Dupax del Norte, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Dupax del Sur, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Kayapa, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Ambaguio, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Sta Fe, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
DOST—Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development	<i>P5: Development and Verification of Soil and Water Management Strategies for Citrus Production</i>	2017-2021
DOST—Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development	<i>Philippine Isolates of Entomopathogenic Fungi as Potential Source of Microbial Agents Citrus Rind Borer (CRB) and Twig Blight Disease (TBD) of Citrus</i>	2017-2022
DOST—Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development	<i>Phase 2: Enhancing the Intellectual Property and Technology Business Management (IP-TBM) Operations of the Nueva Vizcaya State University</i>	2018-2021
DOST – Philippine Council for Industry, Energy, and Emerging Technology Research and Development	<i>Establishing the Sabatan: The Nueva Vizcaya State University Technopreneurs Hub</i>	2019-2022
DOST	<i>Field Testing, Pilot Scale Production and Market Study of Locally-Developed Bioinsecticide for Eggplant</i>	2020 – 2021
Philippine Rice Research Institute	<i>Multi-location adaptation trial for the irrigated lowland inbred entries (NCT-MAT); and National Cooperative Test for Cool Elevated area (NCT-CE)</i>	2021
Department of Agriculture – Bureau of Agricultural Research	<i>Development of Formulated Entomopathogenic Fungi (EPF) as Biofungicide Against Tomato Black Leaf Mold</i>	2020-2023
LGU, Aritao, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Dupax del Norte, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Dupax del Sur, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU Kayapa, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present
LGU, Ambaguio, Nueva Vizcaya	<i>Mushroom, Vegetable, and Fruit Tree Production</i>	2021-present

## RESEARCH, EXTENSION & TRAINING

Partner	Title of Collaborative Project	Duration
LGU, Sta Fe, Nueva Vizcaya	Mushroom, Vegetable, and Fruit Tree Production	2021-present
DA—Agricultural Competitiveness Enhancement Fund	A Community-Based Enterprise on Instant Tilapia Cream Soup Production and Commercialization	2020-2022
DA—Agricultural Competitiveness Enhancement Fund	Upgrading of Indoor and Controlled Button Mushroom Production Facility at Nueva Vizcaya State University	2020-2021
DA—Agricultural Competitiveness Enhancement Fund	Upgrading of Tissue Culture Production Facility of Triploid Hybrid (abb) Saba Banana Cultivar at Nueva Vizcaya State University	2020-2021
DOST Region 02	Development of a Novel Processing Facility for the Conversion of Agricultural products to Ethyl Alcohol	2020-2021
LANDBANK Countryside Development Foundation, Inc	Financial Literacy Program	2020-2021
DA Regional Field Office Region 2	Massive Seedlings and Seeds Production Program: Enhancing Food Supply through Household Level Vegetable Production in the New Normal	2021
DA—Agricultural Competitiveness Enhancement Fund	Establishing a Viable Enterprise using Free Range Chicken Production Technology in Nueva Vizcaya	2021-2023
DA—Agricultural Competitiveness Enhancement Fund	Increasing Availability of Swine Quality Stock Through Distribution and Upgrading of Swine Multiplier Farm in Nueva Vizcaya	2021-2023
DOST Region 02	Prototyping Development of Selected Sabatan's Metal Technologies and Innovation: In Support of Agricultural Industries in Region 02	2021-2022
LGU, Dupax del Sur, Nueva Vizcaya	Mushroom, Vegetable, and Fruit Tree Production	2021-present
LGU, Kayapa, Nueva Vizcaya	Mushroom, Vegetable, and Fruit Tree Production	2021-present
LGU, Ambaguio, Nueva Vizcaya	Mushroom, Vegetable, and Fruit Tree Production	2021-present
LGU, Sta Fe, Nueva Vizcaya	Mushroom, Vegetable, and Fruit Tree Production	2021-present
DOST—Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development	Supply Chain Analysis of Pummelo in Selected Regions of the Philippines	2021-2022
DOST—Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development	Enhancing Biopesticide Efficacy of Entomopathogenic Fungi (EPF) Against Citrus Rind Borer (CRB) in Calamansi and Pummelo by Myco-synthesis of Bio-Nanoparticles	2021-2023
DOST Region 02	Phase II – Development of a Novel Processing facility for the Conversion of Agricultural Products to Ethyl Alcohol and Organic Fertilizer	2021-2022



# EXTENSION AND TRAINING

## MUSHROOM RESOURCES, RESEARCH, AND DEVELOPMENT CENTER

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The Nueva Vizcaya State University envisions to strengthen the Mushroom Resources Research and Development Center (MRRDC) for the fast-growing needs of technological capability and dissemination, research, as well as extension assistance involving the different colleges and units in the university to support economic development for the clientele and the community, subsequently generating employment and income for the community and entrepreneurs.

The center caters to the needs of the students and faculty members of the university, the community, and the province, in terms of mushroom technology for research and development. Center beneficiaries include mushroom production entrepreneurs, organizations, individuals, and households from the fifteen (15) municipalities of Nueva Vizcaya.

The center also serves as a germplasm bank of various mushroom strains. The center provides a continuous supply of quality mushroom spawn for the project and clients. It offers technical expert services to clientele through the college-based RET programs and forges partnerships with concerned government and non-government agencies as well as other entities to enhance the technology/delivery system of mushroom production.

The center engaged in the **commercialization of Shiitake and product development in Nueva Vizcaya** for increased productivity of farmers. NVSU enhanced its Mushroom Laboratory facilities for scaled-up Shiitake spawn growing, established community-based Shiitake production in Dupax del Norte and Kayapa and developed Shiitake products with high marketability.

For 2021, this project provided technical assistance and capability building activities, produced planting spawn and fruiting bags of shiitake and oyster mushrooms.

Technical assistance and capability-building activities were offered to the Municipalities of Dupax del Sur, Dupax del Norte, Ambaguio, Kayapa, and Bayombong, Nueva Vizcaya. The sale of spawn, fruiting bags, and fresh mushroom generated an incidental income of Php 11,210.00.



# A COMMUNITY-BASED ENTERPRISE ON INSTANT TILAPIA CREAM SOUP PRODUCTION AND COMMERCIALIZATION

Project Leader: Dr. Chery Cabading-Lacaden

This commercialization project was initially approved to be implemented for one year on August 12, 2020. Due to unprecedented occurrence of risks, the project was extended up to June 2022.

The project trained and hired CBEESCC members who produced fish cream soup and packaged 80,000 units of fish cream soup. The overall product acceptability in terms of texture, flavor, and taste registered a mean rating of “6” (“like slightly”) out of a highest possible mean rating of “9” using a Likert scale. The Spoonigo brand was registered to the Intellectual Property Office of the Philippines (IPO-Phil)



## DOST ACADEME TECHNOLOGY-BASED ENTERPRISE DEVELOPMENT (DAT-BED)

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The Small Enterprise Technology Upgrading Program (SET-UP) of DOST includes DAT-BED as a project. It offers funding, training programs, access to facilities, and the most recent technology as means of support. In addition, DAT-BED creates revenue-generating projects for the NGO or school that the prospective technopreneur is affiliated with. To increase the number of Filipino youths employed, the goal of DAT-BED is to stimulate the development of an entrepreneurial curriculum and technology business incubation (TBI) among participating schools/organizations. TBI is used to describe assistance initiatives for the formation and expansion of successful technology-based firms.

**2** students have been served by this program providing them financial assistance amounting to

**PHP 40,000.00**

for the full commercialization of their enterprises.

## AGRICULTURAL EXTENSION OUTREACH PROGRAM (AEOP) NURSERY PROJECT

The AEOP Nursery Project is one among the long-standing projects implemented by the UEP. This project continually produces asexually propagated planting materials of high-value fruit trees such as pummelo, rambutan and lanzones. Within the project also are fruit-bearing tree of novel varieties such as durian, longgan and persimmon. Incidental income generated by the project amounted to Php 68,770.00 and P79,070.00 for the sales of seedlings and fruits, respectively.

### SALES OF SEEDLINGS

Seedlings	No. of kilos (kg)	Sales (PhP)
Rambutan	117	15,500.00
Longan	289	25,090.00
Marang	123	2,500.00
Lanzones	62	9,810.00
Durian	14	1,500.00
Mango	203	14,370.00
<b>Total</b>	<b>808</b>	<b>68,770.00</b>

### SALES OF FRUITS

Fruits	No. of kilos (kg)	Sales (PhP)
Avocado	55	550.00
Rambutan	1,708	71,680.00
Pummelo	10	2,000.00
Marang	3	150.00
Lanzones	15	2,400.00
Durian	18	2,290.00
<b>Total</b>	<b>1,809</b>	<b>PhP 79,070.00</b>





# PLANT, PLANT, PLANT PROGRAM

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The Department of Agriculture Regional Field Office 2 (DA-RFO2) signed a Memorandum of Agreement with the Nueva Vizcaya State University to implement the "Plant, Plant, Plant Program" with a budget of PhP 2,000,000.00 under the Department of Agriculture's Massive Seedling and Seeds Production Program on January 13, 2021. This is in support of Republic Act 11494 otherwise known as the Bayanihan Act 2 that was created to respond to the effects of the COVID-19 pandemic in the country.

The project led by the Extension and Training program increased the availability of quality vegetable seeds and seedlings in the province and ensured food security and productivity during the pandemic. Vegetable seedlings such as okra, eggplant, squash, cowpea, and bottle gourd were distributed to the different municipalities of the province from March to June 2021.

The Extension and Training Program is currently working on the sustainability of the program to continuously provide seedlings to more households to even promote backyard farming

### **Production of 200,000 Hybrid Vegetable Seedlings Seed Sowing and Seedling Management**

Seeds were sowed in seed trays and managed based on the Department of Agriculture-RFO 2 (DA-RFO 2) Production Guides (published February 2017) on Bitter Gourd, Eggplant, Okra, Squash, and Tomato. Seed sowing was conducted on a staggered basis from March to June 2021 to avoid overcapacity in the nurseries.

### **Distribution of Seedlings Seedlings distribution**

A total of 200,000 seedlings (40,000 seedlings per vegetable) were distributed for the whole duration of the project.

### **Selection of Household Beneficiaries NVSU**

#### **coordinated with the LGUs on the selection of household beneficiaries**

A master list of beneficiaries was secured by NVSU from the LGUs for documentation and monitoring. A total of 10,000 households of Nueva Vizcaya were given 20 vegetable seedlings (4 seedlings per type).

### **Production of 200 kg Open Pollinated Variety (OPV)**

#### **Vegetable Seeds Vegetable Varieties and Sources of OPV Seeds**

OPV seeds were purchased from RAMGO Seed Company through procurement process.

### **Cultural Management Practices**

The vegetables were managed following the Production Guides on Bitter gourd, Eggplant, Okra, Squash, and Tomato of the DA-RFO2 (published in February, 2017).

### **Seed Production**

In-campus seed production areas were established by the project and they served as a showcase on vegetable production in the university. From the seed production area, a total of 200 kg seeds of Open Pollinated Vegetables were produced by the project.





## TRAINING AND TECHNICAL ADVISORIES

The Extension program conducted trainings on various livelihood projects, agricultural production, homemaking and industrial technology, and other capability-building activities. As a result of these, 21 trainings conducted by the Extension program and the different colleges of both campuses, a total of 1,615.25 people received extended services and knowledge.

<i>Title of Activity</i>	<i>Date</i>	<i>Venue</i>	<i>No. of Pax</i>	<i>Responsible College/Office</i>
Seminar-workshop on Awareness on Food Safety and HACCP	January 18-19, 2021	NVSU Food Processing Center, Bay, NV	12.5	College of Human Ecology
Training on Enhancement of Skills and Knowledge on Rice Production	February 9-10, 2021	Kinabuan, Dupax Del Sur and Banila, Dupax Del Sur, NV	255	College of Agriculture
Training on Shiitake Mushroom Production	February 24-25, March 24-25, 30-31 & April 21-22, 2021	Giayan, Belance, Dupax Del Norte, Sanggit, Dupax Del Sur, Salingsingan, Ambanguio, Kayapa, NV	25	College of Agriculture
Skill training on Food (Fruit and Vegetable) Processing	February 22-23, 2021	College of Industrial Technology, Food Processing Laboratory, Bambang, NV	38.75	College of Industrial Technology
Training on Mushroom Spawn Production	March 1, 2021	College of Forestry, Bayombong, NV	10	College of Forestry
Training on Tapuy (Rice) and Fruits wine Production	March 4, 2021	Brgy Hall, Pieza, Villaverde, NV	58	College of Human Ecology
Coffee Fruits and Vegetable Processing	June 30 & July 3, 2021	College of Human Ecology (via Virtual)	353	College of Human Ecology
Banana Processing (Banana Chips, Banana Flour, Banana Bread & Banana Cookies)	July 14-15, 2021	College of Industrial Technology, Food Processing Center, Bambang, NV	15	College of Industrial Technology
Training on Shiitake Mushroom Production	July 14-15, 2021	Sanguit, Dupax del Sur, NV	32.5	College of Agriculture

## RESEARCH, EXTENSION & TRAINING

<i>Title of Activity</i>	<i>Date</i>	<i>Venue</i>	<i>No. of Pax</i>	<i>Responsible College</i>
Training on Shiitake Mushroom Production	July 21-22, 2021	Salingsingan, Ambaguio, NV	27.5	College of Agriculture
Online Campus Journalism Writeshop	July 26-27, 2021	College of Teacher Education Audio Visual Room	122.5	College of Teacher Education-Bambang
Pangkabuhayan at Nutrisyon sa panahon ng Pandemya	July 17, 2021	College of Human Ecology (via Virtual)	182	College of Human Ecology
Basic Computer Literacy	July 26-28, 2021	College of Engineering E-Lab, Bambang, NV	45	College of Engineering-Bambang
Capacitating into the World of Engineering Driven Simulation	September 15-16, 2021	College of Engineering E-Lab (via zoom, virtual)	62.5	College of Engineering-Bambang
Skills Training on Pineapple Processing	September 22, 2021	Pasalubong Center, Solano, NV	15	College of Human Ecology
Skills Training on Pineapple Processing	September 23, 2021	Pasalubong Center, Solano, NV	15	College of Human Ecology
Skills Training on Bread and Pastry Production	November 26, 2021	College of Industrial Technology, Food Processing Center, Bambang, NV	22	College of Industrial Technology
Citrus Juice Production	November 27, 2021	NVSU Food Processing Center, Bayombong, NV	16	College of Human Ecology
Psychological Safe Space: Promoting Good Mental Health at Work	November 24, 2021	NVSU Mini-Theater, Bayombong, NV	24	Gender and Development
Psychological Safe Space: Promoting Good Mental Health at Work	November 24, 2021	NVSU Mini-Theater, Bayombong, NV	221	Gender and Development
Training on Tomato Processing	November 24-26, 2021	Talbek Multi-Purpose Hall, Dupax del Sur, NV	63	College of Human Ecology

# GENERAL ADMINIS- TRATION & SUPPORT SERVICES

The General Administration and Support Services serves as the strong support arm of the university. It provides various support services that propel the university to attain its mandate and fulfill its vision, mission, and goals.



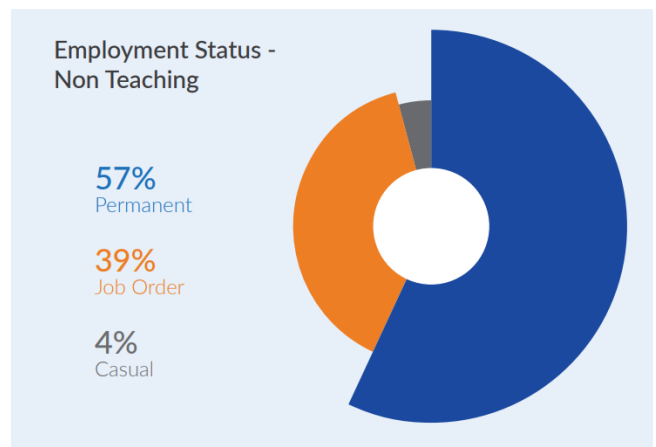
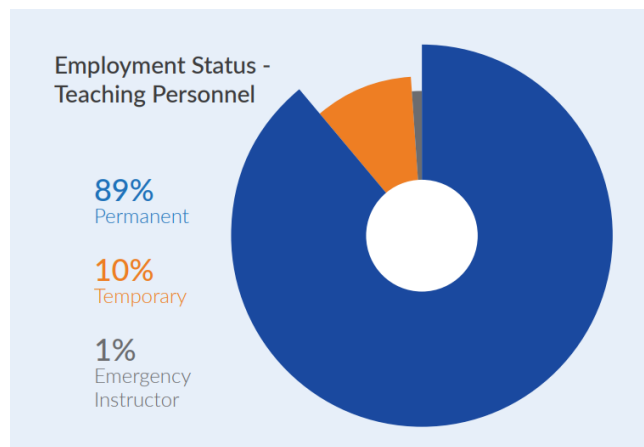
# ADMINISTRATIVE MANAGEMENT SERVICES

NVSU received the Civil Service Commission PRIME-HRM BRONZE AWARDEE at the NATIONAL LEVEL for achieving excellence in human resource management practices, particularly in recruitment, selection, and placement; learning and development; performance management, and rewards & recognition. The awarding ceremony was held via Zoom last September 29, 2021.



## HUMAN RESOURCE MANAGEMENT

The Human Resources Management Office creates implementing and oversees policies governing personnel. Its mainly recruits, hires, deploys, and manages the human resources of the university.



# 767

personnel from both campuses vigorously executed the university's thrusts in teaching, research, extension and training, and support services.

Of these, **55%** was from the teaching personnel

and **45%** from the non-teaching personnel



## GENERAL ADMINISTRATION & SUPPORT SERVICES

### DISTRIBUTION OF PERSONNEL BASED ON EMPLOYMENT STATUS

As of this report, there are 100 unfilled positions: 78 in the teaching staff and 22 in the non-teaching staff.

	<i>Bayombong</i>	<i>Bambang</i>	<i>Subtotal</i>
Teaching	212	146	358
Non-Teaching	140	50	190
<b>Total</b>	<b>352</b>	<b>196</b>	<b>548</b>

### DISTRIBUTION OF UNFILLED POSITIONS BY CATEGORY

	<i>Bayombong</i>	<i>Bambang</i>	<i>Total</i>
Teaching	37	41	78
Non-Teaching	18	4	22
<b>Total</b>	<b>352</b>	<b>45</b>	<b>100</b>

In terms of personnel movements, a total of 92 personnel were given appointments such as renewal as temporary (46), and casual (14), change status from temporary to permanent (7) and from casual to permanent (1); promotion (9), original (10) and reemployment (5).

<i>Renewal Temporary</i>	<i>Renewal Casual</i>	<i>Change of Status Temp- Perm</i>	<i>Coterminous/ Transfer</i>	<i>Promotion</i>	<i>Original</i>	<i>Re-employment</i>	<i>Subtotal</i>
<b>BAYOMBONG</b>							
17	11	6	1	8	10	4	57
<b>BAMBANG</b>							
29	3	1	0	1	0	1	35
<b>46</b>	<b>14</b>	<b>7</b>	<b>1</b>	<b>9</b>	<b>10</b>	<b>5</b>	<b>92</b>

There were 25 personnel who separated from the university due to retirement, resignation, non-renewal of temporary appointment, and death.

	<i>Campus</i>	<i>No. of Employees</i>	<i>Subtotal</i>
Teaching	Bayombong	8	19
	Bambang	11	
Non-Teaching	Bayombong	5	6
	Bambang	1	
<b>Total</b>			<b>25</b>

documents were registered to ensure the smooth delivery of services in the HRMO.

### TEMPLATES/FORMS:

- Standard Operating Instruction on DTR
- Administration
- Standard Operating Instruction on Application for Leave
- Standard Operating Instruction on Payroll Processing of JO and COS Workers
- Standard Operating Instruction on Recruitment, Selection and Placement for Non-Teaching
- Standard Operating Instruction on Recruitment, Selection and Placement for Job Order and Contract of Service Workers
- Standard Operating Instruction on DTR Administration
- Work Instruction on the Conduct of Online Examinations and Interview of Applicants
- Work Instruction on Management of Application Documents
- Application for Leave (CS Form 6) Revised 2020
- Notice of Allocation of Maternity Leave (CS Form 6a)
- Employee Leave Card for Vacation/Sick Leave Status
- Employee Leave Card for Teacher's Leave Status
- Summary of Absences, Tardiness, and Undertime (SATU)
- Estimated Schedule of Leave Form
- Notice to Chosen Candidate
- Notice of Applicants on Status of Application
- Checklist of Applicant's Documents
- Checklist of Documents for Payroll Processing
- Job Application Index
- Daily Time Record (DTR) Submission Checklist
- Daily Time Records (DTR) Distribution Checklist
- Certification of Engagement of Job Order Workers for Short Duration and for Specific Place of Work
- Retirement Application Form
- Renewal of Temporary Appointments
- Qualifying Examination Result (1st Level)
- Qualifying Examination Result (2nd Level)
- Contract of Service – Job Order
- Contract of Service – Emergency Instructor
- Contract of Service – Lecturer

## RECORDS MANAGEMENT

- Standard Operating Instruction on the Handling of Incoming Records
- Standard Operating Instruction on the Handling of Outgoing Records
- Standard Operating Instruction on Records for Disposal
- Standard Operating Instruction on the Release of Official Records
- Standard Operating Instruction on Archival and Retention of Records
- Standard Operating Instruction on Authentication of Documents
- An Act to strengthen the System of Management and Administration of Archival Records establishing for the purpose of the National Archives of the Philippines and other purposes
- NAP Form No. 1 – Records Inventory and Appraisal
- NAP Form No. 2 – Records Disposition Schedule
- NAP Form No. 3 – Request for Authority to Dispose Records
- NAP Form No. 7 – Request Authority to Transfer for Non-Current Public
- Work Instructions on Disposal of Valueless Records
- Work Instructions on the Disposal of Valueless Records and Submission of Records Disposition Schedule (R.A. No. 9470)

The Records Management Office safeguards the information resources of the university by complying with national laws and regulations by the National Archives and Records Administration, identifying vital records, and implementing strategies for preserving information and records of long-term value.

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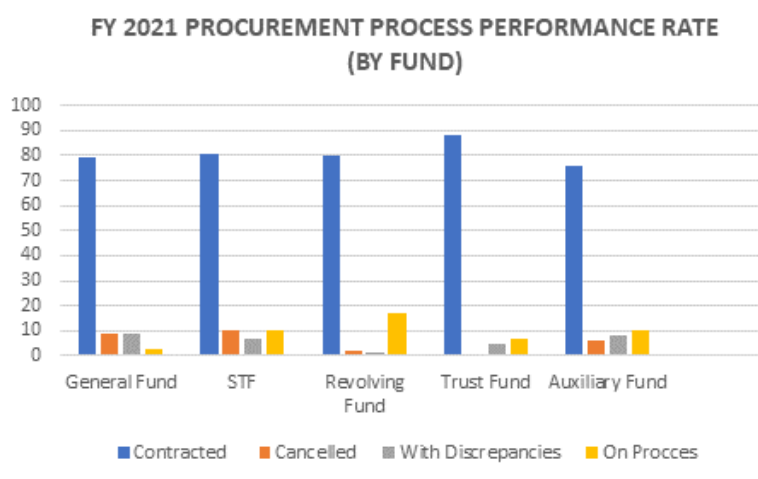
incoming and outgoing transactions were facilitated and

# 214

requests were granted to clients for document authentication and issuance of official documents

## PROCUREMENT SERVICES & BIDS AND AWARDS COMMITTEE

The Procurement Services processed the purchase of facilities, goods, and services based on the approved FY 2021 NVSU Annual Procurement Plan (APP).



APCPI PILLARS	IDEAL RATING	AGENCY RATING
Legislative and Regulatory Framework	3.0	1.75
Agency Institutional Framework and Management Capacity	3.0	3.0
Procurement Operations and Management Practices	3.0	2.67
Integrity and Transparency of Agency Procurement Systems	3.0	3.0
<b>Total</b>	<b>3.0</b>	<b>2.60</b>

NVSU scored **2.6** in the Agency Procurement Compliance Performance Indicator (APCPI).

On average, this indicates a more or less 80% percent success rate on all procurement activities. The remaining 21% not contracted was due to the following reasons: cancellation made by the supplier due to sudden increase of price or items went out of stock (5.4%); discrepancies like the cost exceeded ABC or low-cost estimate by the end-user; branding; vague specifications; incorrect unit of measurement (6.0%), and returned contracts to the end-user for rectification and processing of procurement activities (9.40%).

Particulars	Submitted to	Date of Submission	Date of Deadline (GPPB Advisory 02-2022)
Indicative APP FY 2021	GPPB/AO25 Secretariat	March 16, 2020	Compliant
Approved APP FY 2021	GPPB	December 9, 2020	Compliant
Approved APP-CSE FY 2021	DBM	November 19, 2020	Compliant
Procurement Monitoring Report (PMR) Jan. to June 2021	GPPB	July 13, 2021	Compliant
Procurement Monitoring Report (PMR) July to Dec 2021	GPPB	February 9, 2022	March 31, 2022
Approved Updated APP FY 2021	GPPB	February 14, 2022	March 31, 2022
Approved APP FY2022		February 16, 2022	March 31, 2022
<b>Agency Procurement Compliance Performance Indicator</b>	<b>GPPB</b>	<b>2.60</b>	<b>June 30, 2022</b>

## GENERAL ADMINISTRATION & SUPPORT SERVICES

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The Procurement Services registered seventeen (17) templates and forms which are now used in the procurement process.

- Annual Procurement Plan (APP)
- Annual Procurement Plan – Common Supplies and Equipment (APP-CSE)
- Purchase Request (PR)
- Job Request (JO)
- NVSU-FR-PRO-01-00 – Certification of Market Research
- NVSU-FR-PRO-02-00 – Purchase Request Monitoring Sheet
- Request for Quotation (RFQs)
- NVSU-FR-PRO-03-00 – Small Value Procurement Sec. 53.9
- NVSU-FR-PRO-04-00 – Shopping Sec. 52.1 (b)
- NVSU-FR-PRO-05-00 – Direct Contracting Sec. 50
- NVSU-FR-PRO-06-00 – Request for Quotation Monitoring Sheet
- NVSU-FR-PRO-07-00 – Abstract of Quoted Pricing Sheet
- NVSU-FR-PRO-08-00 – Procurement Contract Monitor
- NVSU-FR-PRO-09-00 – Purchase Order (PO)
- NVSU-FR-PRO-10-00 – Purchase Order Monitoring Sheet
- NVSU-FR-PRO-11-00 – Supplier's Performance Evaluation
- NVSU-FR-PRO-12-00 – Return Slip (Goods and Services)

## SUPPLY MANAGEMENT

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The Property and Supplies Management Office oversees the efficient acquisition, utilization, and disposal of properties and equipment, through proper custodianship, inventory, storage, and insurance. The Financial Management Services (FMS) include the university's budgeting, accounting, and cashiering operations. The FMS oversees the management and analysis of the University's financial resources and operations. The succeeding tables show the financial position and financial performance of the University as of December 2021 with comparable figures from CY 2020. The financial position of the University increased by 9.92% from the CY 2020 Receipt of delivered property, plant, and equipment (PPE), semi-expendable items, services, and various types of supplies and materials for use by various operating units of the University was adequately accounted for, inspected, and diligently accepted.

Total receipts for all delivered properties amounted to

**PHP 43,428,132.13**  
for Bayombong Campus and

**PHP 21,141,964.83**  
for Bambang Campus

## FINANCE MANAGEMENT SERVICES

The Financial Management Services (FMS) includes the university's budgeting, accounting, and cashiering operations. The FMS oversees the management and analysis of the University's financial resources and operations. The succeeding tables show the financial position and financial performance of the University as of December 2021 with comparable figures from CY 2020.

### FINANCIAL POSITION

The financial position of the University increased by **9.92%** from the CY 2020.

As of December 31, 2021 (with Comparative Figures for CY 2020)

ASSETS	2021 (PHP)	2020 (PHP)
CURRENT ASSETS		
Cash and Cash Equivalents	401,487,718.80	321,272,978
Receivables	68,818,053.00	84,688,222
Inventories	2,499,104.83	1,621,509
Other Current Assets	426,360.39	8,363,039
Total	473,231,237.02	415,945,750.00
NONCURRENT ASSETS		
Property, Plant and Equipment	661,984,221.15	622,794,821.00
Biological Assets	950,770.97	1,075,544.00
Intangible Assets	1,927,200.79	2,502,107.00
Other Noncurrent Assets	5,711,316.76	5,117,121.00
Total	670,573,509.67	631,489,595.00
<b>TOTAL</b>	<b>1,143,804,746.69</b>	<b>1,047,435,345.00</b>

LIABILITIES & EQUITY	2021 (PHP)	2020 (PHP)
LIABILITIES		
Financial Liabilities	26,720,435.28	18,306,749.00
Tax Refund Payables	109,837.79	640
Inter-Agency Payables	64,949,734.19	43,345,508.00
Intra-Agency Payables	3,031,596.56	23,203,799.00
Trust Liabilities	207,310,399.57	184,332,275
Other Payables	115,795.52	23,263.00
Total	302,237,798.91	269,212,236.00
EQUITY		
Government Equity, End	830,113,034.08	778,223,108.00
<b>TOTAL</b>	<b>1,172,583,357.72</b>	<b>1,047,435,345.00</b>



### AUXILIARY SERVICES

The Auxiliary Services (AS) is one of the income-generating arms of the University. It manages the operations of lodging houses (dormitories and guest houses), function halls and sports complex, catering, and identification card processing.

The Division generated an income of

**PHP 1,534,845.00**

for both campuses.

**97%**

Catering



**3%**

Dormitories  
and Others

### HEALTH SERVICES



The Health Services Unit played a vital role as a member of the COVID-19 Inter-Agency Task Force (NVSU COVID-19 IATF) in mitigating the spread of the COVID-19 disease.

The unit facilitated various initiatives in the interventions to mitigate the spread of the COVID-19 disease through communication campaigns and safety protocols of the university. The unit recorded 11% of the patients affected by the COVID-19 virus. It also assisted in the COVID-19 and anti-flu vaccination of employees and students at the Nueva Vizcaya Provincial Office.



### BUSINESS AFFAIRS

The Business Affairs (BA) manages the Agricultural Entrepreneurship Projects (AEP) composed of the Swine Project, Pomology Project, Tilapia ng Buhay Projects, and Non-agricultural Projects such as the Water-refilling Station.

Gross income derived from the projects mentioned amounted to

# PHP 1,459,467.00

The swine project generated the highest gross income

with a net profit of

# 40.97%

Gross sales from the other projects were lower due to the intermittent lockdowns brought about by the COVID-19 pandemic.



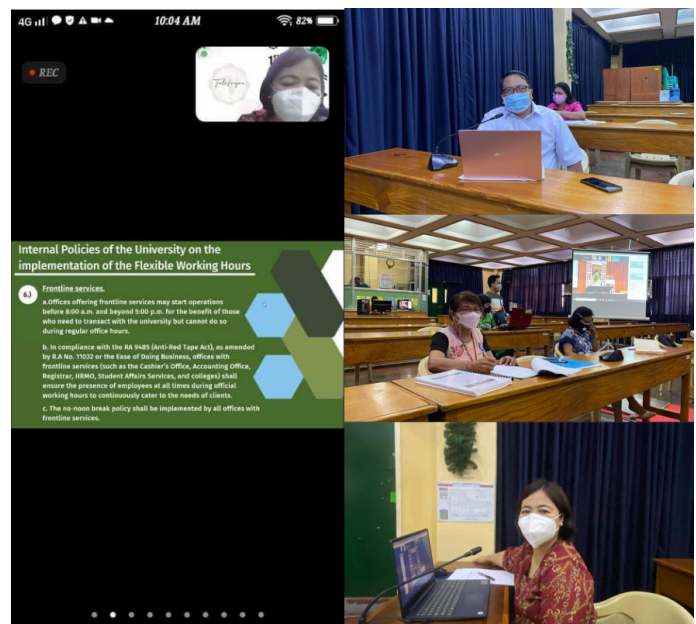
## NEW INITIATIVES AND OTHER ACTIVITIES

To instill an efficient and harmonious working environment in the university, the NVSU Talakayan was conceptualized. It is a regular activity which serves as a venue for the NVSU employees to be acquainted with the existing and new policies. After the presentations, an open forum was held, shedding light on critical areas of the presented policies.

### NVSU TALAKAYAN

The **1st NVSU TALAKAYAN** was successfully held on October 1, via Zoom. The policies presented and presenters were:

- Internal Rules on the Implementation of Flexible Working Time/ Dr. Cristina R. Salvosa, Bayombong Campus Administrator
- Reinstitution of the Grievance / Alfred Roderick T. Manzano, Legal Officer
- Retirement Procedures/Dr. Cecile J. Martin, Director, Administrative Services
- NVSU Health Protocols /Dr. Kristian Danielle P. Fernandez, Medical Officer III - Bayombong Campus



## GENERAL ADMINISTRATION & SUPPORT SERVICES

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The **2nd NVSU TALAKAYAN** Focused on “Psychological Safe Space: Promoting Good Mental Health at Work” and was facilitated by the Mental Health Program, Medical Health Services, and Gender and Development Programs of the University. This was held on November 24, 2021, via Zoom. Speakers were Dr. Eduardo Caligner, a resident Psychologist from Ateneo de Manila University and Associate Professor of the University of Sto. Tomas, and Dr. Jeremy Sapira, a resident Psychiatrist from the Region 01 Medical Center.

## COLLABORATIVE EFFORTS

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The PLGU-Nueva Vizcaya, represented by the Hon. Governor Carlos M. Padilla, believes that the academe is a strong and effective partner in the development of the province. Hence, the university received continuous support through the following:

- PHP 600,000.00 allocated for the construction of the NVSU Alumni Affairs Conference Room
- COVID-19 vaccination shots of faculty, staff, and students through the Nueva Vizcaya Provincial Integrated Health Office (NV-PIHO)
- Use of the Nueva Vizcaya Sports Complex for the sports and development activities of the University

The University participated in the soft opening of the Provincial Sports Complex (formerly CLISOC Field) through a ceremonial ribbon cutting and blessing held on August 30, 2021. The NV-PLGU spearheaded this through the leadership of Governor Carlos M. Padilla.

In response to the provincial government's advocacy for the control of the spread of the COVID-19 disease, the **Dumlao Farmer's Training Center of the University was used as a Quarantine Facility for persons under investigation (PUI).**

### STUDY IN THE PHILIPPINES:

EduTourism. The NVSU, together with the Nueva Vizcaya Provincial Planning Development Office (NV-PPDO) and Provincial Tourism Office (NV-PTO), prepared a proposal titled “**Nueva Vizcaya Studies on Heritage, Environmental Resources Management and Promotions.**”

This was submitted to the Commission on Higher Education (CHED) for funding with the program Study in the Philippines (StudyPh) of the CHED International Affairs. The StudyPh seeks to position the Philippines as a higher education hub while supporting, revitalizing, and intensifying convergence with the Philippine Tourism sector.

A Memorandum of Agreement with the Hope, World Peace, and Restoration of Light, a non-profit and non-government organization based in South Korea, was forged.

As such, peace studies would be integrated into relevant academic curricular programs and projects in the University. This endeavor complied with CHED Memo Order no. 1 series of 2019, entitled “Integration of Peace Studies/Education into Relevant Higher Education Curricula.”

A Memorandum of Agreement was forged between Jose Rizal State University (JRSU) and NVSU through the funding of CHED, on the project “**The New Normal Assessment in Higher Education: Capacitating Higher Education Institutions to Nurture Future-Ready Human Resources.**”

The University opened its doors to some government agencies to occupy a space within the campus. The Civil Service Commission-Nueva Vizcaya office has already erected its building and has operated within the campus. Likewise, the construction of the Department of Trade and Industry building within the campus is ongoing. This NVSU-DTI project was covered by the approved USUFRUCT Agreement between the two entities.



### NVSU FEDERATED FACULTY ASSOCIATION (FFA)

The University Administration manifested its support for the endeavors of the FFA. The Collective Negotiation Agreement (CNA) of the association had been renewed.



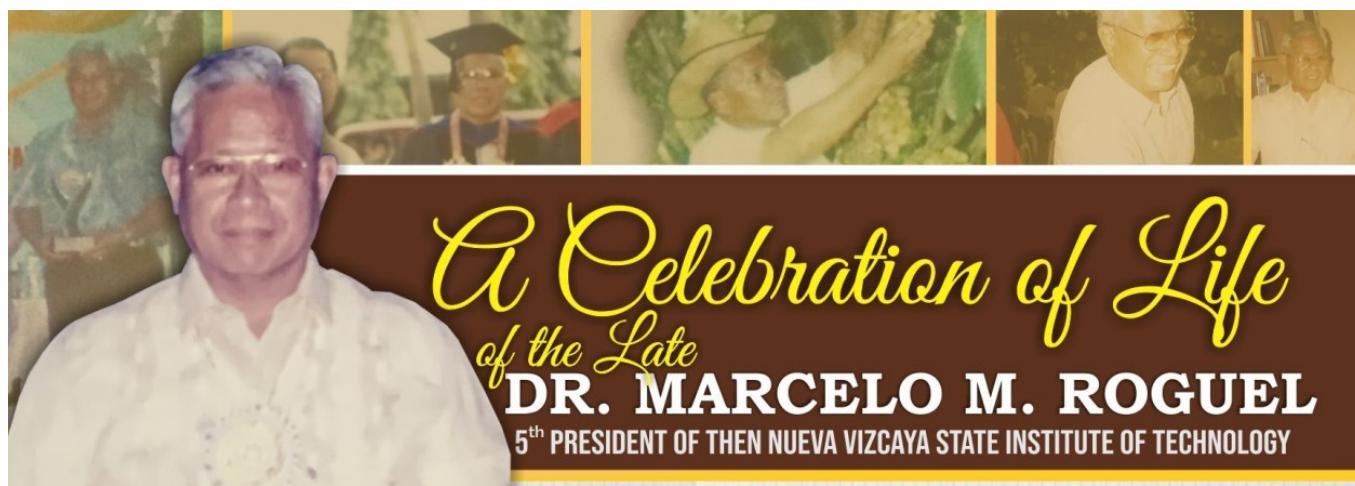
### NATIONAL QUINCENTINNIAL CELEBRATIONS

The NVSU Community displayed banners and featured activities in the university spaces and media platforms in celebration of the 2021 Philippine Quincentennial Commemoration.



### TRIBUTE TO DR. MARCELO M. ROGUEL

The University conducted a prayer service cum tribute in celebration of the life of the late Dr. Marcelo M. Roguel, who tirelessly and relentlessly served as the 5th President of the then Nueva Vizcaya State Institute of Technology (NVSIT), now NVSU, from 1999-2004. He joined the Creator on September 5, 2021.



### NVSU LANDSCAPE COMPETITION

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Through the leadership of OIC President Ruth Raña Padilla, a two-month (June-July) landscape and beautification competition was held. There were 19 entries from the Bayombong Campus and 5 from the Bambang Campus. All entries showcased distinct creativity and ingenuity. Likewise, this activity improved the landscape of the University, which was left unattended due to the long break brought about by the pandemic. The event was supported by the Provincial Local Government of Nueva Vizcaya (PLGU-NV) through the Hon. Carlos M. Padilla who also provided cash prizes and major cash awards sourced personally by the OIC President Ruth Raña-Padilla.

### UNIVERSITY CHRISTMAS PROGRAM

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Despite the pandemic, the University celebrated the birth of Jesus Christ, the Savior, and Redeemer. The occasion highlighted the Christmas Village, Paskuhan sa NVSU activities featuring the celebration of Christmas in the University. Winners were awarded during the University-wide Christmas program held on December 22, 2021.







# PLANNING, DEVELOPMENT AND INFORMATION SYSTEMS

The Planning, Development, and Information Systems (PDIS) Office plays a crucial role in the delivery of efficient and effective university services. It is the focal office for the University-IATF and the University Disaster Risk Reduction and Management Team (DMT) which oversee the proper implementation of COVID-19 protocols and ensure that these protocols are duly implemented as recommended by the IATF and other agencies in the province and region.

# PLANNING AND DEVELOPMENT

The Planning and Development Office, with the assistance of the University Disaster Risk Management Team, led the university's contact tracing, disinfection activity, and other relevant health safety protocols. In coordination with the PLGU Nueva Vizcaya, it also facilitated all of the activities for COVID-19 response. Specific activities include the following:

- Conducted disinfection in the university vicinity
- Monitored COVID-19 cases and initiated actions for prevention of the spread of the virus inside the university with the help of our UDRRMT Focal Person and the Medical Services
- Coordinated with the DILG regarding the use of a quarantine facility in the university
- Initiated the NVSU Community Pantry and distributed goods to nearby communities



## LAND MANAGEMENT OF UNIVERSITY PROPERTIES

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### BAMBANG CAMPUS

- Consolidation survey of the parcels of lot covering the NVSU Bambang campus
- Facilitated the dialogue and agreement with the informal settlers to vacate their occupied land covered by NVSU Bambang campus land

### BAYOMBONG CAMPUS

- Conducted ground re-delineation survey of the area occupied and excavated by an identified person and suspended encroaching and excavation
- Processed the permitting of tree cutting within the construction of NVSU buildings
- Generated the final NVSU Land Use Map

### TUAO SOUTH

- Generated the final land use map of the proposed NVSU Agriculture Innovation Center, including ground delineation.



# PHYSICAL PLANT AND SITE DEVELOPMENT

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15 completed projects, 11 at the Bayombong Campus and 4 at the Bambang Campus with a total cost of

**PHP 13,779,282.24**

While ongoing infrastructure projects included 2 at the Bayombong Campus and 3 at the Bambang Campus, with a total amount of

**PHP 1,296,738.95**

There are 2 ongoing projects with a project cost of

**PHP 1,296,738.95**

was generated from accumulated funds.

Likewise, the National Housing Authority funded the construction of an Indigenous Peoples' Dormitory in both campuses worth

**PHP 20 M** each.

The concreting of the PDIS road, mainly in the Motorpool area, was made possible through the initiative of PDIS Vice President Elmer T. Castañeto and Planning Officer Arshiela G. Gauuan, who facilitated the Php200,000.00 funding from the Office of the Governor, Honorable Carlos M. Padilla.



## REGULAR-FUNDED PROJECTS FOR CY 2021 BAMBANG CAMPUS

PROJECT TITLE	CONTRACTOR	CONTRACT COST (PHP)	REMARKS
1. Repair/Rehabilitation of Ceramic/PTCA Building	ZYRRONE CONSTRUCTION AND GENERAL MERCHANDISE	1,566,599.87	COMPLETED, undergoing corrective works
2. Repair/Rehabilitation of TVEP Twin Building and Facilities	CHEINA CONSTRUCTION	2,335,101.48	97% ACCOMPLISHED, ongoing
3. Construction of Mechanical Engineering Laboratory Building and Facilities	ZYRRONE CONSTRUCTION AND GENERAL MERCHANDISE	15,716,530.13	20% ACCOMPLISHED, ongoing
4. NHA-NVSU IP Dorm Project			Site monitoring

## REGULAR-FUNDED PROJECTS COMPLETED PRIOR TO 2021

PROJECT TITLE	CONTRACTOR	CONTRACT COST (PHP)	REMARKS
1. Improvement of IT Laboratory Building and Facilities	GV BURTON BUILDERS AND CONSTRUCTION SUPPLY	7,119,594.13	COMPLETED
2. Completion/Continuation of Academic Classroom Building	SIFU J. BUILDERS	6,964,846.30	COMPLETED
3. Improvement of Technology Laboratory Building and Facilities	SIFU J. BUILDERS	8,791,034.41	95% ACCOMPLISHED, ongoing

## FUNDED PROJECTS STARTED IN DECEMBER 2021 ACCUMULATED FROM UNIVERSITY SAVINGS

PROJECT TITLE	CONTRACTOR	CONTRACT COST (PHP)	REMARKS
1. Improvement of Motorpool and Facilities	CJN DESIGN	3,656,043.62	COMPLETION TARGET on June 12, 2022
2. Completion/Continuation of Academic Classroom Building and Facilities	RJB CONSTRUCTION SERVICES	1,715,243.66	COMPLETION TARGET on May 12, 2022

## IMPROVEMENT OF THE MAIN GATE

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**PHP 1,650,485.44**



## IMPROVEMENT OF THE NORTH GATE

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**PHP 865,851.25**





## REFURBISHMENT OF THE RESEARCH JOURNAL OFFICE

**PHP 284,748.98**

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## ESTABLISHMENT OF SHEDDED STORAGE AREA

**PHP 458,056.78**

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## INSTALLATION OF ALUMINUM TRANSACTION WINDOWS AT THE NEW ADMINISTRATION BUILDING

**PHP 75,613.72**

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## INSTALLATION OF FIRE ALARM AND FIRE EXIT LADDER AT THE NEW ADMINISTRATION BUILDING

**PHP 111,835.49**

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## UPGRADING OF THE INDOOR AND CONTROLLED BUTTON MUSHROOM PRODUCTION FACILITY

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**PHP 4,619,928.27**

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## IMPROVEMENT OF THE NVSU CLINIC AND SITE DEVELOPMENT

**PHP 1,540,237.29**



## CONSTRUCTION OF TWO-STOREY ARCHIVE BUILDING

**PHP 2,355,624.48**



## DEVELOPMENT OF TUAO LAND RESERVATION REPAIR OF BARN HOUSE, WATER/PLUMBING SYSTEM, ROAD NETWORK AND ELECTRICAL SYSTEM

**PHP 1,362,520.46**



## ON-GOING PROJECTS BAYOMBONG CAMPUS

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Concreting of the Circumferential Road from the Dormitory to the Dumlao Farmer's Training Center

**PHP 3,087,191.88**



Upgrading of the Tissue Culture Production Facility of Triploid Hybrid (abb) Saba Banana Cultivar

**PHP 4,082,317.87**



Construction of Indigenous Peoples' Dormitory



## COMPLETED INFRASTRUCTURE PROJECTS FY 2021

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### BAMBANG CAMPUS

Improvement of the Technology Laboratory and Facilities

**PHP 8,791,316.48**

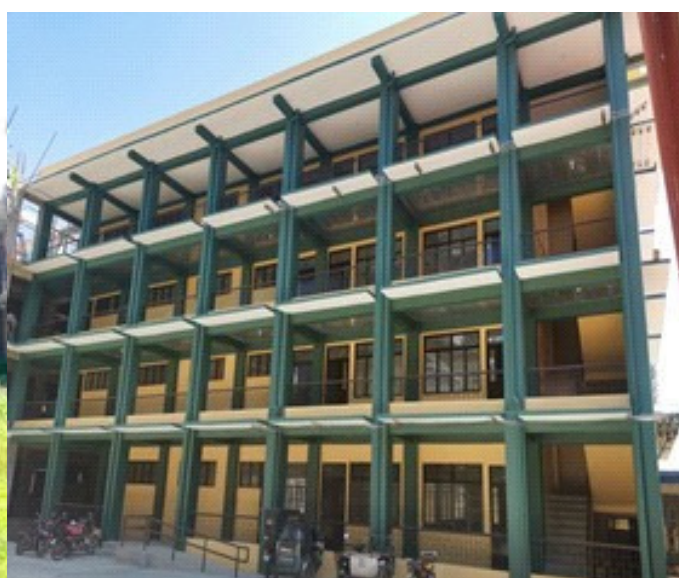


Improvement of the Ladies Indigenous Peoples' Dormitory and Facilities

**PHP 8,749,824.46**

Improvement of the Ladies Indigenous People's Dormitory and Facilities

**PHP 7,119,594.13**





Completion/Continuation of Academic  
Classroom Building and Facilities

**PHP 6,964,846.30**



## ON-GOING PROJECTS BAMBANG CAMPUS

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Construction of Mechanical Laboratory Building and Facilities

**PHP 19,486,093.90**



**PHP 19,486,093.90**

Repair/Rehabilitation of Ceramic/PTCA Building

## PLANNING, DEVELOPMENT AND INFORMATION SYSTEMS

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Repair and rehabilitation of TVEP Twin Building and Facilities

**PHP 2,919,915.32**



## INFRASTRUCTURE PROJECTS FROM ACCUMULATED FUND SOURCE

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Improvement of Motorpool Facilities Bayombong Campus

**PHP 3,656,043.62**







# BOARD RESOLUTIONS

The governing and the highest policy-making body of Nueva Vizcaya State University are vested exclusively in the Board of Regents and the President of the University as authorized by the Board.

The members of the Board of Regents set the policies and responsibilities of the University administration.

# 65TH AND 66TH REGULAR BOARD OF REGENTS' MEETING

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Resolution No. 003, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Manual of Operation of the University National Service Training Program (NSTP) 2020.
Resolution No. 004, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Web-based Nueva Vizcaya State University College Admission Test (NCAT).
Resolution No. 005, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Renaming of the College of Forestry to College of Forestry, Environment and Resources Management (CFERM).
Resolution No. 006, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Revised Bachelor of Science in Environmental Science (BSES) Curriculum of the College of Forestry.
Resolution No. 007, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Renaming of the Department of Languages of the College of Arts and Sciences (Bayombong Campus) to the Department of Arts and Languages.
Resolution No. 008, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Application for the Recognition of the Program Bachelor of Arts in Social Science major in Indigenous Studies, Bambang Campus.
Resolution No. 009, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the College of Agriculture's Project Proposal to the CHED NAFES for 2021.
Resolution No. 010, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Annual Procurement Plan for FY 2021 provided that BAC endorsement/resolution be submitted to the Board Secretary as an extension document for full approval and to be submitted to the Chair.
Resolution No. 011, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved as amended the Posting/Bidding for the Construction of College of Business Education Building for Bayombong Campus worth Php 36 Million and Construction of Mechanical Engineering Laboratory Building and facilities for Bambang Campus worth 20 Million.
Resolution No. 012, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Proposed Wage Increase for Job Order Workers and Emergency Instructors effective March 1, 2021, to wit: a. Php 12,034.00 for JOs Php 26,052.00 for EIs

## BOARD RESOLUTIONS

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Resolution No. 013, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Conferment of Degrees and Title to 2 Graduates for Mid-year 2020 (Bayombong Campus).
Resolution No. 014, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Conferment of Degrees and Title to 2 Graduates for Mid-year 2020 (Bayombong Campus).
Resolution No. 015, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Original Appointment of university personnel
Resolution No. 016, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Promotion of University Personnel.
Resolution No. 017, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Designations of University Personnel
Resolution No. 018, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Original Contract of Casual Employees
Resolution No. 019, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Original Contract of the following Emergency Instructors
Resolution No. 020, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Original Contract of the Job Order/COS Personnel
Resolution No. 021, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Memorandum of Agreement between the National Housing Authority (NHA), Municipal Government of Bambang, and NVSU on the development of NVSU IP Dormitory Project in Brgy. Homestead, Bambang, Nueva Vizcaya amounting to Php 19,995,727.70.
Resolution No. 022, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Externally Funded Projects with Memorandum of Agreement.
Resolution No. 023, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Memorandum of Agreement between the NVSU and Quirino State University (QSU) on the implementation of the project "Enhancing Tissue Culture and Macropropagation of Saba: Cagayan Valley's Planting Material Support System for Banana" funded by the DA-BAR.
Resolution No. 024, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Externally Funded Projects with Memorandum of Agreement.



## BOARD RESOLUTIONS

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Resolution No. 025,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Memorandum of Agreement between the NVSU and Quirino State University (QSU) on the implementation of the project “Enhancing Tissue Culture and Macropropagation of Saba: Cagayan Valley’s Planting Material Support System for Banana” funded by the DA-BAR.

Resolution No. 026,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Memorandum of Agreement between the NVSU and the Department of Agriculture-Regional Field Office (DA-RFO2) on the implementation of the project “Enhancing Tissue Culture and Macropropagation of Saba: Cagayan Valley’s Planting Material Support System for Banana” funded by the DA -BAR.

Resolution No. 027,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the Memorandum of Agreement between Land Bank Countryside Development Foundation, Inc. (LCDFI), and NVSU on providing Financial Literacy Program to individual farmers through the Extension and Training Program of the College of Business Education and LCDFI.

## 67TH REGULAR BOARD OF REGENTS’ MEETING

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Resolution No. 028,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Internal Guidelines for Online Recruitment and Selection for Non-Teaching Positions during the Period of COVID-19 Pandemic.

Resolution No. 029,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Updated Annual Procurement Plan (APP) for FY 2021 of the Nueva Vizcaya State University

Resolution No. 030,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Third Program of Receipts and Expenditures (PRE) for CY 2021 Amounting to Php 21,230,217.63 chargeable to Fund 164-Special Trust Fund-Accumulated Savings.

Resolution No. 031,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Updating of the Authorized Signatories to Reactivate the Nueva Vizcaya State University Land Bank Account number 3252 -1037 -66 with Land Bank of the Philippines-Bambang, Nueva Vizcaya Branch.

Resolution No. 032,  
series of 2021

BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Annual Procurement Plan (APP) for FY 2022 of the Nueva Vizcaya State University

# 68TH REGULAR BOARD OF REGENTS' MEETING

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Resolution No. 033, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved in principle the Establishment of the CHED Scholarships for Instructor's Knowledge Advancement Program (SIKAP) Grant Management Office without prejudice to the availability of the Criteria, Framework, Nature of the Program, and the rational reason behind it
Resolution No. 034, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the NVSU's Project Proposal to CHED (under the Study in the Philippines Program of the CHED International Affairs Staff) entitled "Nueva Vizcaya Studies on Heritage, Environmental Resources Management, and Promotions"
Resolution No. 035, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Revised Nueva Vizcaya State University (NVSU) Intellectual Property Policy
Resolution No. 036, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Technology Transfer Protocol
Resolution No. 037, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Memorandum of Agreement between NVSU, West Flanders Synergy Program Pilipinas, and Institute for Climate and Sustainable Cities on the implementation of 'Slow Onset Event Research Phase II'
Resolution No. 038, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Memorandum of Understanding between the "A Community-based Enterprise on Instant Tilapia Cream Soup Production and Commercialization Project" of NVSU Research Extension and Training and Ms. Alma Grace M. Casumpang for the production and commercialization of the product
Resolution No. 039, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Memorandum of Understanding between the "A Community-based Enterprise on Instant Tilapia Cream Soup Production and Commercialization Project" of NVSU Research Extension and Training and the CBE Entrepreneurs Savings and Credit Cooperative (CBEESSCC) on the implementation and sustainability of the project
Resolution No. 040, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Memorandum of Understanding between NVSU and Heavenly Culture, World Peace, Restoration of Light (HWPL) on the Integration of Peace Studies/Education into the relevant Higher education Curricula, as per CMO01, s. 2019
Resolution No. 041, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Memorandum of Understanding between NVSU and School Policy Studies, Kwansei Gakuin University, Gakuen, Sanda, Hyogo 669-1337 Japan to facilitate academic cooperation in terms of Philippine Field Work Program, Faculty Exchange Program, and Socio-Cultural Exchange Program

## BOARD RESOLUTIONS

Resolution No. 042, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the re-institution of the Nueva Vizcaya State University Grievance Machinery
Resolution No. 043, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Creation of Separate Bids and Awards Committee (BAC) for Infrastructure, Goods, and Equipment; Inclusion of Alternate Members and Strengthening the BAC Composition
Resolution No. 044, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the Internal Rules Implementing the Flexible Working Time of the Nueva Vizcaya State University
Resolution No. 045, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the NVSU Guidelines on the Procurement of Airline Tickets from the Department of Budget and Management-Procurement Service (DBM-PS) through the Government Fares Agreement
Resolution No. 046, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the action of the former President on the approval of the study leave of University Personnel
Resolution No. 047, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the International Paper Presentation of the two faculty members of the university
Resolution No. 048, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the retirement of university personnel
Resolution No. 049, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents approved the retraction of retirement of NVSU employees
Resolution No. 050, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the designation of university personnel
Resolution No. 051, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the original appointment of university personnel
Resolution No. 052, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the re-employment of university personnel
Resolution No. 053, series of 2021	BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Board of Regents confirmed the promotion of university personnel

# APPROVED & CONFIRMED RESOLUTIONS

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Referendum No. 001, series of 2021: A resolution approving the Composition of the NVSU Search Committee for Presidency 2021

Referendum No. 002, series of 2021: A resolution approving the Request of the NVSU Search Committee for Presidency to the Proposed Additional Guidelines to CMO NO. 16, s. 2009; Call for Application (announcement to be published in a national daily; and Timetable for the Search

Referendum No. 003, series of 2021:

- a. The award of Contract to the Winning Bidder for the Construction of the CBE Building at the Bayombong Campus and Mechanical Engineering Laboratory building and Facilities at Bambang Campus
- b. The authority for the OIC-President to execute the consequential acts relative to the competitive bidding and construction of the College of Business Education Building at Bayombong Campus and Mechanical Engineering Laboratory and Facilities at Bambang Campus

Referendum No. 004, series of 2021: A resolution approving the FY 2022 Budget Proposal of the NVSU

Referendum No. 006, series of 2021: A resolution confirming the Conferment of Degrees and Title to 108 Graduates for 1st Semester of S.Y. 2020-2021

Referendum No. 007, series of 2021: A resolution approving the Appointment of Two (2) Medical Officers for both campuses of the University

Referendum No. 009, series of 2021: A resolution approving the Academic Calendar for AY 2021-2022 of the Nueva Vizcaya State University

Referendum No. 014, series of 2021: A resolution confirming the Conferment of Degrees and Title to Graduates for 2nd Semester of S.Y. 2020-2021

Referendum No. 015, series of 2021: A resolution approving the Memorandum of Understanding with DOST, DTI, DA, NEDA, PCCI, CVCIDC, ISU, QSU, and STRIDE on the establishment of the Cagayan Valley Regional Inclusive Innovation Center

Referendum No. 016, series of 2021: A resolution confirming the original contract of emergency instructors

Referendum No. 017, series of 2021: A resolution confirming the change of status of personnel from temporary to permanent

Referendum No. 018, series of 2021: A resolution confirming the original contract of Job Order and Contract of Service Personnel

Referendum No. 019, series of 2021: A referendum confirming the Memorandum of Agreement with fourteen (14) municipalities of Nueva Vizcaya on the implementation of the DOST-PCHRD funded project entitled Development of Microfluidic Paper-based Analytical Devices for the Detection of Diarrhea-causing Pathogens in Water

Referendum No. 020, series of 2021: A referendum confirming the Memorandum of Agreement between NVSU and PLGU Nueva Vizcaya on the implementation of the Value Chain Analysis (VCA) of Oyster Mushroom and Commercial Rice

Referendum No. 021, series of 2021: A referendum confirming the Memorandum of Agreement between NVSU and Jose Rizal Memorial State University on the Research Training Project entitled: The New Normal of Assessment in Higher Education: Capacitating HEIs to Nurture Future-Ready Human Resources



## BOARD RESOLUTIONS

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Referendum No. 022, series of 2021: A referendum confirming the NVSU IP-TBM Phase II: Sustaining the Nueva Vizcaya State University Intellectual Property and Technology Business Management Operations (NVSU IP-TBM) through Patent Mining of Citrus Commodity

Referendum No. 023, series of 2021: A referendum confirming the Establishing a Viable Enterprise using Free Range Chicken Production Technology in Nueva Vizcaya

Referendum No. 024, series of 2021: A referendum confirming the Massive Seedlings and Seeds Production Program: Enhancing Food Supply through Household Level Vegetable Production in the New Normal

Referendum No. 025, series of 2021: A referendum confirming the Prototyping Development of Selected Sabatan's Metal Technologies and Innovation: Support to Agricultural industries in Region 02

Referendum No. 026, series of 2021: A referendum confirming the Memorandum of Agreement between NVSU and various government agencies on the Organization of the Cagayan Valley Bamboo Industry Development Council (CAVBIDEC) as the regional counterpart of the Philippine Bamboo Industry Development Council

Referendum No. 027, series of 2021: A referendum confirming the Memorandum of Agreement between the Commission on Higher Education (CHED), Provincial Local Government Unit of the Province of Nueva Vizcaya, and NVSU on the Establishment of Covid-19 Quarantine Centers/community Isolation Units within NVSU Premises

Referendum No. 028, series of 2021: A referendum confirming the Memorandum of Agreement between NVSU and the Provincial Local Government Unit of the Province of Nueva Vizcaya on the grant of financial assistance amounting to Php 600,000.00 for the construction of the NVSU Alumni Office Conference Room

Referendum No. 029, series of 2021: A referendum confirming the Memorandum of Understanding between NVSU and Tarlac Agricultural University to collaborate concerning strengthening their academic programs in their respective College of Veterinary Medicine

Referendum No. 030, series of 2021: A referendum confirming the Memorandum of Agreement between NVSU and the Intellectual Property Office of the Philippines (IPOPHL) on the establishment of a network of Innovation and Technology Support Office (ITSO)

Referendum No. 031, series of 2021: A referendum approving the Second Extension of the Deadline of Submission of Application for the NVSU Presidency for another 45 days and includes a One-Time Publication of the extension in a National Daily Newspaper

Referendum No. 031a, series of 2021: A referendum approving the designation of Dr. Julita I. Balancio as OIC- Director, Auxiliary Services

Referendum No. 032, series of 2021: A referendum approving the request for the authority of the University Officer-in-Charge to appoint Emergency Instructors and Job Order Workers

Referendum No. 033, series of 2021: A referendum approving the request for reposting of bidding of the project: "Construction of the College of Business Education (CBE) Building for Bayombong Campus" with an Approved Budget for the Contract (ABC) of Php 35,130,521.84 and for the authority of the Officer-in-Charge to sign and execute the Notice of Award, Contract, Notice to Proceed, and the consequential acts relative to the procurement of said project

Referendum No. 034, series of 2021: A referendum approving the Authorization of the Officer-in-Charge to Sign and Execute the Notice of Award, Contract and Notice to Proceed, and other Consequential Acts for Procurement Transactions within the signing Authority of the University President

Referendum No. 036, series of 2021: A referendum approving the request for the Declare Failure of Search for the NVSU Presidency

# COURSE OFFERINGS

## BAYOMBONG CAMPUS

### COLLEGE OF AGRICULTURE

#### UNDERGRADUATE PROGRAMS

- \* Certificate of Agriculture Science
- \* Bachelor of Science in Fisheries
- \* Bachelor of Science in Agriculture
  - Specializations: Animal Science, Crop Science (Agronomy Horticulture), Crop Protection (Plant Pathology/Entomology), Soil Science, Agricultural Economics and Marketing, Agricultural Extension and Communication

#### GRADUATE PROGRAMS

- \* Doctor of Philosophy
  - Specializations: Animal Science, Crop Science, Rural Development
- \* Doctor of Philosophy by Research
  - Specializations: Animal Science, Crop Science
- \* Master of Science
  - Specializations: Animal Science, Crop Science, Rural Development
- \* Master of Science by Research
  - Specializations: Animal Science, Crop Science

### COLLEGE OF ARTS AND SCIENCES

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Science in Information System
- \* Bachelor of Science in Mathematics
- \* Bachelor of Science in Computer Science
  - Specializations: Game Development, Robotics
- \* Bachelor of Science in Information Technology
  - Specializations: Web and Mobile App Development, Network Design and Management
- \* Bachelor of Science in Biology

#### GRADUATE PROGRAMS

- \* Doctor of Philosophy in Science Education in Mathematics
- \* Master of Science in Teaching Mathematics

### COLLEGE OF BUSINESS EDUCATION

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Science in Agribusiness
- \* Bachelor of Science in Business Administration
  - Specializations: Financial Management, Marketing Management, Human Resource Management, Business Economics

#### GRADUATE PROGRAMS

- \* Doctor of Philosophy in Organization, Development, and Planning
- \* Master of Management
  - Specializations: Agribusiness Management, Business Management, Public Management

### COLLEGE OF ENGINEERING

#### UNDERGRADUATE PROGRAMS

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

#### GRADUATE PROGRAM

- \* Master of Science in Agricultural Engineering
  - Specialization: Soil and Water Management

### COLLEGE OF FORESTRY, ENVIRONMENT, AND RESOURCE MANAGEMENT

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Science in Forestry
- \* Bachelor of Science in Agroforestry
- \* Bachelor of Science in Environmental Science
  - Specializations: Environmental Planning, Environmental Management, Ecosystem Management
- \* Bachelor of Science in Ecotourism

#### GRADUATE PROGRAMS

- \* Doctor of Philosophy by Research Specialization: Forestry
- \* Master of Science in Forestry
  - Specializations: Forest Resource Management, Silviculture and Forest Influences, Social Forestry and Forest Governance
- \* Master of Science by Research Specialization: Forestry

### COLLEGE OF HUMAN ECOLOGY

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Science in Hospitality Management
  - Specializations: Restaurant Administration, Hotel Administration
- \* Bachelor of Science in Tourism Management
  - Specializations: Destination Management, Travel Management
- \* Bachelor of Science in Home Technology
  - Specialization: Food and Nutrition

#### GRADUATE PROGRAM

- \* Master of Science
  - Specializations: Home Technology, Home Technology Education

### COLLEGE OF VETERINARY MEDICINE

#### UNDERGRADUATE PROGRAMS

- \* Bachelor in Animal Science - Doctor in Veterinary Medicine

## COLLEGE OF TEACHER EDUCATION

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Elementary Education
- \* Bachelor of Early Childhood Education
- \* Bachelor of Culture and Arts Education
- \* Bachelor of Physical Education
- \* Bachelor of Secondary Education
  - Specializations: English, Filipino, Mathematics, Social Studies, Science
- \* Bachelor of Technology and Livelihood Education
  - Specializations: Industrial Arts, Information and Communication Technology, Home Economics, Agri-Fishery Arts
- \* Bachelor of Technical-Vocational Teacher Education
  - Specializations: Automotive Technology, Civil Technology, Drafting Technology, Electronics Technology, Food Service Management, Furniture and Fabrication Technology, Welding Technology

#### GRADUATE PROGRAMS

- \* Doctor of Philosophy in Science Education
  - Specializations: General Science, Biological Science, Physical Science
- \* Doctor of Philosophy in Multilingual Education
- \* Doctor of Education in Educational Management
- \* Master of Arts in Education
  - Specializations: Music, Arts, Physical Education, and Health
- \* Master of Arts in Teaching
  - Specializations: English, Filipino
- \* Master of Education
  - Specializations: Educational Administration, Language, Reading, and Numeracy
- \* Master of Science Education in General Science

## BAMBANG CAMPUS

### COLLEGE OF ARTS AND SCIENCES

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Public Administration
- \* Bachelor of Science in Biology
  - Specializations: Animal Biology, Plant Biology
- \* Bachelor of Arts in English
- \* Bachelor of Science in Cooperative Development

#### GRADUATE PROGRAMS

- \* Doctor of Philosophy
  - Specialization: Organization, Development, and Planning
- \* Master in Public Administration
  - Specialization: Local Government Administration

### COLLEGE OF INDUSTRIAL TECHNOLOGY

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Science in Computer Science
  - Specializations: Business Analytics, Quality Assurance
- \* Bachelor of Science in Information Technology
  - Specializations: Network Design and Management, Web and Mobile App Development
- \* Bachelor of Science in Hospitality Management
  - Specializations: Food Service Management, Lodging Service Management
- \* Bachelor of Science in Industrial Technology
  - Specializations: Automotive Technology, Electrical Technology, Mechanical Technology, Civil Technology, Computer Technology, Drafting Technology, Electronics Technology, Refrigeration and Air-Conditioning Technology, Cosmetology, Welding and Fabrication Technology and Food Technology

### COLLEGE OF TEACHER EDUCATION

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Secondary Education
    - Specializations: English, Filipino, Mathematics, Science, Social Studies
  - \* Bachelor of Elementary Education
  - \* Bachelor of Physical Education
  - \* Bachelor of Technical Vocational Teacher Education
    - Specializations: Automotive Technology, Drafting Technology, Electrical Technology, Electronics Technology, Food Service Management
  - \* Bachelor of Technology and Livelihood Education
    - Specializations: Home Economics, Industrial Arts, Information and Communication Technology
- #### GRADUATE PROGRAMS
- \* Doctor of Education in Educational Management
  - \* Master of Arts in Education
    - Specializations: Educational Management, Filipino, English
  - \* Master of Science in Teaching in General Science
  - \* Master of Arts in Teaching
    - Specializations: Filipino, English, Mathematics, Instructional Technology, Technology and Home Economics
  - \* Master of Science in Teaching in General Science
  - \* Master of Science Education in General Science

### COLLEGE OF ENGINEERING

#### UNDERGRADUATE PROGRAMS

- \* Bachelor of Science in Mechanical Engineering
- \* Bachelor of Science in Electrical Engineering
- \* Bachelor of Science in Electronics and Communications Engineering
- \* Bachelor of Science in Computer Engineering



# BOARD OF REGENTS



**Regent J. PROSPERO E. DE VERA III**

*Chairperson  
Commission on Higher Education*

Represented by:

**Regent MARITA RANA-CANAPI**

*Commissioner, Commission on Higher Education  
Chair, NVSU BOR*

**Regent RUTH RAÑA-PADILLA**

*OIC President, Nueva Vizcaya State University  
Vice-Chair, NVSU BOR*

**Regent DIONISIO C. LEDRES, JR.**

*Regional Director, NEDA R02  
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