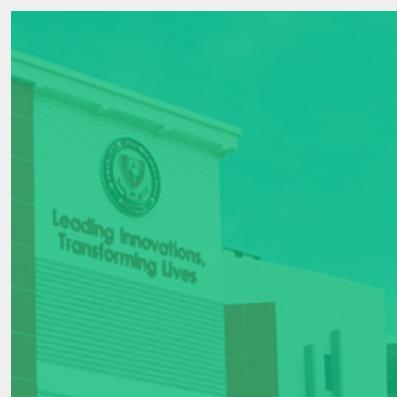




2022

Sustainability Report

Magnifying blueprint
for sustainability.



Explore More



What's Inside

- 01 Chancellor's Message
- 02 About the Campus
- 03 Accreditation
- 04 Campus Community
- 05 Sustainability Champions
- 06 Measuring Sustainability through SDGs
- 07 BatStateU and the Community
- 08 Ways Forward



Chancellor's Message

With courage and conviction, Batangas State University takes part in the worldwide effort in creating a sustainable environment for the next generation. By the year 2030, the United Nations aim to achieve these goals. Here at the university, we fully embrace these goals and are taking small steps that will resonate and eventually contribute to the worldwide effort of achieving the goals on the given timeline.

The core mission on sustainability is to achieve excellence in improving the quality of living of the communities that we serve. Through and through, we continue to fulfill our mandate as The National Engineering University and set the bar high for others to emulate. It was not an easy task to bear but with harmonious collaboration among the University and other stakeholders, achieving excellence is not far from reality. Presented in these reports are the combined efforts of the Red Spartan community to make a difference in the word we live in, starting from our immediate community. We continue to put into practice the concepts and take note of the key challenges to be able to create remedies and practical solutions that is ready to be utilized as needed.

It is a privilege to serve the community and the globe through efforts to achieve sustainability. Our university, Batangas State University including all our campuses, partner industries and stakeholders will continuously join hands and minds in order to achieve this worldwide goal and leave a lasting legacy to the generations to come.



Dr. TIRSO A. RONQUILLO
Chancellor, BatStateU Alangilan Campus

The core mission on sustainability is to achieve excellence in improving the quality of living of the communities that we serve.

About the Campus

Batangas State University—The National Engineering University, under the leadership of Dr. Tirso A. Ronquillo, is composed of five (5) constituent campuses. One of which is the Alangilan Campus, where the campus administrator is called the Chancellor. By virtue of BOR Resolution No. 135, Series of 2022, Dr. Ronquillo was also assigned as the Chancellor of Alangilan Campus.

Acquired by the university in 1984, Alangilan is the second-oldest campus of the university, located in Golden Country Homes, Brgy. Alangilan, Batangas City. The Knowledge, Innovation, and Science Technology (KIST) Park, registered under the Philippine Economic Zone Authority in the nation, recently acquired 2.73 hectares of the 5.62 hectares of land in Alangilan, Batangas City. The three colleges and research hubs on the campus currently occupy 2.89 hectares.

The College of Engineering, Architecture, and Fine Arts, the College of Industrial Technology, and the College of Informatics and Computing Sciences make up the Alangilan Campus. However, its extension campuses are Lobo, Mabini, and Balayan.

40 undergraduate programs offered

20,815
students

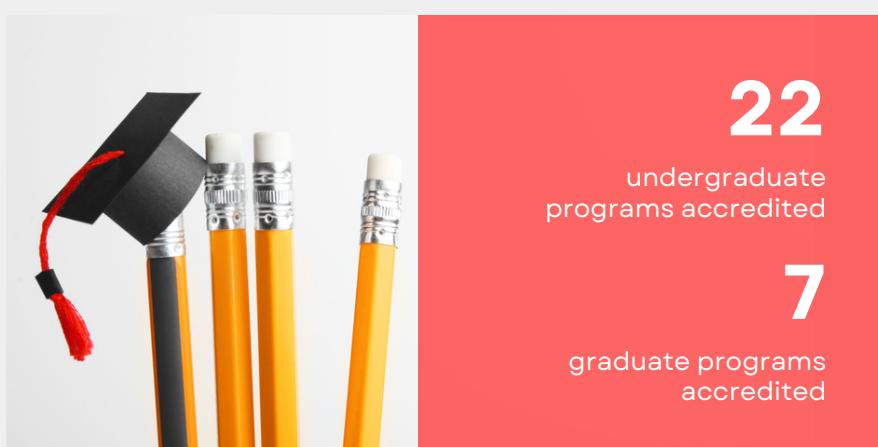
892
faculty and employees



Accreditation

Batangas State University—The National Engineering University Alangilan Campus' BS Chemical Engineering, BS Mechanical Engineering, BS Electrical Engineering, BS Civil Engineering, BS Electronics Engineering, BS Industrial Engineering, BS Sanitary Engineering, and BS Computer Engineering are the eight programs that successfully completed the on-site 2022–2023 Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) review visit last November 13–15, 2022.

Undergraduate Programs	Level <i>as of 2022</i>
Bachelor of Science in Chemical Engineering	Level II
Bachelor of Science in Civil Engineering	Level III
Bachelor of Science in Computer Engineering	Level III
Bachelor of Science in Electrical Engineering	Level III
Bachelor of Science in Electronics Engineering	Level III
Bachelor of Science in Food Engineering	Level II
Bachelor of Science in Industrial Engineering	Level II
Bachelor of Science in Instrumentation & Control Engineering	Level II
Bachelor of Science in Mechanical Engineering	Level IV
Bachelor of Science in Mechatronics Engineering	Level II
Bachelor of Science in Petroleum Engineering	Level II
Bachelor of Science in Sanitary Engineering	Level II
Bachelor of Science in Architecture	Level II



Accreditation

Bachelor of Fine Arts major in Visual Communication	Level II
Bachelor of Science in Interior Design	Level II
Bachelor of Science in Computer Science	Level II
Bachelor of Science in Information Technology	Level II
Bachelor of Industrial Technology	Level III
Bachelor of Science in Industrial Education - Balayan	Level I
Bachelor of Industrial Technology - Balayan	Level II
Bachelor of Science in Agriculture - Lobo	Level I
Bachelor of Science in Forestry - Lobo	Level I

Graduate Programs

Level
as of 2022

Master of Science in Computer Engineering	Level II
Master of Science in Electronics Engineering	Level II
Master of Engineering	Level II
Master of Science in Computer Science	Level II
Master of Science in Information Technology	Level II
Doctor of Technology	Level II
Master of Technology	Level II



22
undergraduate
programs accredited

7
graduate programs
accredited

ALANGILAN Campus Community

20,815

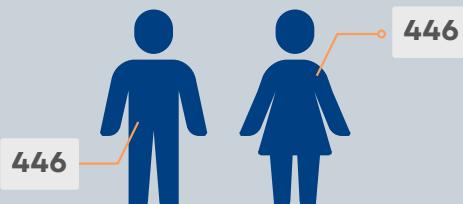
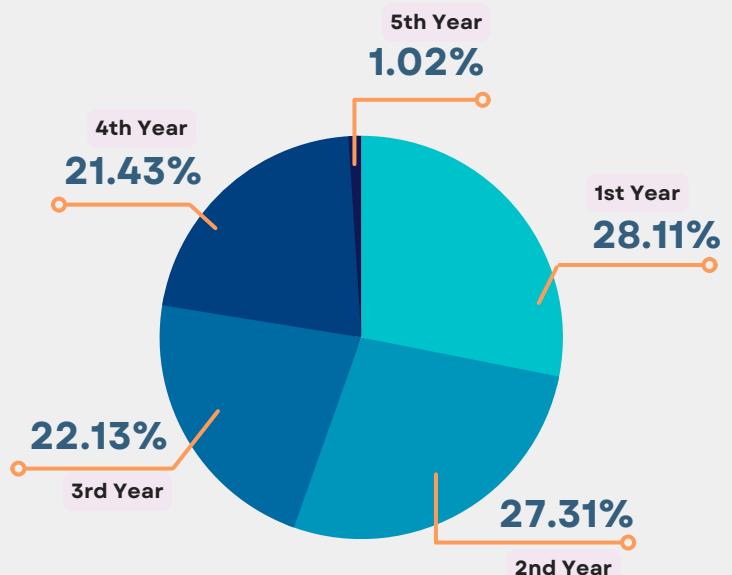
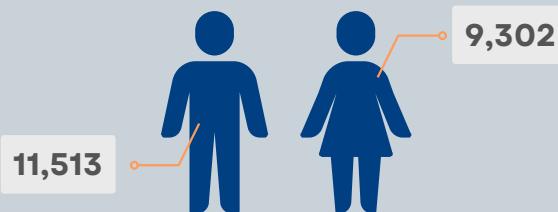
total number
of enrollment

This graph shows the proportion of enrollment per year level. **First year** students hold the most number of enrollees with 5,851 or 28.11 percent of the total enrolment. It is then followed by **second year** students with 5,685 enrollees comprising 27.31 percent, **third year** with 4,606 or 22.13 percent, **fourth year** with 4,461 or 21.43 percent enrolled students and finally, **fifth year** with only 1.02 percent or 212 students.

892

total number
of personnel

The data shows that 60.76 percent (542) of University employees consists of academic staff while the remaining 39.24 percent (350) are non-teaching personnel.



Meet our Sustainability Champions



Dr. TIRSO A. RONQUILLO
Chancellor, BatStateU Alangilan Campus



JELYN D. PAGLINAWAN
SDO Staff



Engr. JOHN KEVIN M. DE CASTRO
Sustainability Development Officer



MARS G. PANGANIBAN
Coordinator, Lobo



REYNALYN I. ASILO
Coordinator, Mabini



Dr. GINA R. EJE
Coordinator, Alangilan



LLOYD H. MACATANGAY
Coordinator, Alangilan

Measuring Sustainability thru SDGs

By utilizing an evaluation method that visualizes the findings of an assessment of various offices, activities, and organizations that have an impact on the SDGs, BatStateU Alangilan and extension campuses exhibit sustainability. We also assess the university's level of economic, social, cultural, and technological advancement. Moreover, three pillars of sustainability—the environment, social responsibility, and economy—can be measured, which is a useful tool for influencing public opinion and increasing sustainability consciousness. Through these initiatives, the institution may share its sustainability objectives with the public and help future generations.



**SDG 1: No Poverty***End poverty in all its forms everywhere.***1,669****4,566****891****23**

Students, faculty and employee who belong to low-income family



students who receive other scholarship/financial assistance



Low-income students who receive financial assistance



Scholarship programs for students

6**4**

Community anti-poverty programs (extension activities)



Theses and Dissertations on Poverty

Highlights

53% of low-income students receive added financial assistance

In 2022, 891 low-income students in total received financial aid. This amounted to 53.39% of the 1,669 students in low-income families in the academic year 2022–2023. These students are the beneficiaries of various scholarship programs, including the Tertiary Education Subsidy (TES), DOST, Gokongwei, San Miguel, and others.

2

project BISIG to assist co-students

The Supreme Student Council and College of Engineering Student Council provide services to fellow students who are in need of load assistance, school supplies, student loaning, and printing services.



BATANGAS STATE UNIVERSITY
SUPREME STUDENT COUNCIL
ALANGILAN CAMPUS

SCHOLARSHIP PROGRAM

UNDERGRADUATE SCHOLARSHIPS



SCHOLARSHIP PROGRAM	TYPE	CLASSIFICATION	MALE	FEMALE
BATANGUEÑOS USA	EXTERNAL FUNDED	PRIVATE	4	0
CCHED-FULL SSP	EXTERNAL FUNDED	GOVERNMENT	0	5
CCHED-HALF SSP	EXTERNAL FUNDED	GOVERNMENT	6	6
DOST JLSS	EXTERNAL FUNDED	GOVERNMENT	16	10
DOST MERIT	EXTERNAL FUNDED	GOVERNMENT	109	101
DOST RA	EXTERNAL FUNDED	GOVERNMENT	385	399
FIRST GEN	EXTERNAL FUNDED	PRIVATE	6	10
FUJIHAYA	EXTERNAL FUNDED	PRIVATE	0	5
GOKONGWEI	EXTERNAL FUNDED	PRIVATE	13	11
IBIDEN	EXTERNAL FUNDED	PRIVATE	9	10
ICTSI-FI	EXTERNAL FUNDED	PRIVATE	2	3
LCCKFI	EXTERNAL FUNDED	PRIVATE	2	0
MMCLI	EXTERNAL FUNDED	PRIVATE	5	3
PHILDEV	EXTERNAL FUNDED	PRIVATE	3	1
SAN MIGUEL	EXTERNAL FUNDED	PRIVATE	9	11
SAKAMATO YAKUHIN	EXTERNAL FUNDED	PRIVATE	4	1
SEM CALACA	EXTERNAL FUNDED	PRIVATE	15	24
TES	EXTERNAL FUNDED	GOVERNMENT	74	54
UAM	EXTERNAL FUNDED	PRIVATE	4	2
BPSB	EXTERNAL FUNDED	GOVERNMENT	1548	1643
TOTAL:			2,214	2,299

GRADUATE SCHOLARSHIPS

SCHOLARSHIP PROGRAM	TYPE	CLASSIFICATION	MALE	FEMALE
CNA	INTERNAL FUNDED	GOVERNMENT	5	1
GS-ALUMNI	INTERNAL FUNDED	GOVERNMENT	21	19
GS-GE	INTERNAL FUNDED	GOVERNMENT	4	3
TOTAL:			30	23



ADDRESSING POVERTY



Financial Management and Literacy in the New Normal

May 20 & August 5, 2022

In an effort to address the needs and concerns of the Mabini DepEd School in terms of equipping them with professional and personal knowledge about topics and activities that will benefit them holistically, Batangas State University TNEU Mabini campus conducted an orientation entitled Financial Management and Literacy in the New Normal on May 20 and had its 2.0 orientation on August 5, 2022. The orientation explains how financial management and literacy can help Mabini DepEd schools better understand how vital it is to handle money wisely, make smart, efficient decisions, and attain financial stability, which can also be the path to reach their goals.

#ProjectKapitBisig v1.0

November 4-December 9, 2022

The Kapit Bisig CoEpatid v1.0 is open to all bona fide students of the Batangas State University, The National Engineering University, Alangilan Campus College of Engineering. This is a service program that aims to provide load assistance and school supplies. Also, this will be the official assistance and extension project of the council for students who aspire to take various government examinations and scholarships.

Community Outreach for our Dear Seniors (CORDS)

November 4-December 9, 2022

The community outreach initiative of this university aimed to uplift and support those who were not granted certain services and rights. While it is part of Filipino culture to care for the elderly, certain seniors are unfortunately neglected by their families. There are foundations that offer senior citizens voluntary care to address this issue. Our program places a high priority on seniors' well-being and community support because we believe that seniors deserve to be taken care of and cherished for the duration of their lives.

PROJECT Bisig

PROJECT BISIG 1.0 PRINTING SERVICE
A printing assistance project intended for the students of the Alangilan campus in which the students can request for assistance in printing school-related files and documents.

PROJECT BISIG 2.0 LOAD ASSISTANCE
Mobile load will be given to students for two months, a week before the midterms and finals.

PROJECT BISIG 3.0 STUDENT LOAN
A financial assistance project through e-learning intended for the students of the Alangilan campus, aiming to ease the gap imposed by the pandemic financially.

Project BISIG 1.0, 2.0 and 3.0

May 2022

Various obstacles were encountered by the students during the pandemic, which influenced the quality of education. The Supreme Student Council - Alangilan Campus organized Project Bisig to fill in the gaps imposed by these occurrences. The said program would aid our fellow Red Spartans to cope with the flexible learning process and convey knowledge in the most accessible and complete manner possible. Project Bisig 1.0 is for Printing Services, Project Bisig 2.0 for Load Assistance and Project Bisig 3.0 is for Student Loaning.



SDG 2: Zero Hunger

End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

4.39 kg



Total campus food waste (annual)

444



Students who experience hunger

2



PPAs for food security and hunger interventions for students and employees

2



PPAs for sustainable, healthy and affordable food

3



Addressing Zero Hunger (extension programs)

11



Research on hunger

Highlights

2

PPAs for sustainable, healthy and affordable food

MIKERON Livelihood Training (MLT) for male and female residents of Gawad Kalinga with a theme: "Simpleng Pagkain, Simpleng Pamamaraan, Gamit Pangkabuhayan" as well as the Venturing Innovative Livelihood Program through effICIENT Meat Processing are the project program activities of BatStateU Alangilan Campus for sustainable, health and affordable food.



4

Extension project Delivery of Useful agri-for-technologies for Committed Agriculture and forestry Farmers (EDUCAF)

The training provided by the BatStateU Lobo College of Agriculture and Forestry Programs is the main focus of EDUCAF, with a particular emphasis on the propagation, exploitation, and plantation management of harvest processing, particularly the Kapeng Barako. Additionally, this activity will illustrate the viability of producing vegetables using organic fertilizers as the primary source of nutrients for the plants and promote efficient waste management through the manufacturing of organic fertilizers.





HUNGER INTERVENTIONS



MIKERON Livelihood Training (MLT) for male and female residents of Gawad Kalinga with a theme: "Simpleng Pagkain, Simpleng Pamamaraan, Gamit Pangkabuhayan"

March 17, 2022

This activity was conducted face-to-face, following the safety protocols as per IATF standards and in accordance with the alert level in Batangas province. The actual training began around nine in the morning. A brief prayer is offered before the CIT Coordinator delivers a greeting. The next step was the introduction of the guest trainer, an entrepreneur named Mrs. Cleofe Alma A. Bayot. The speaker gave a brief introduction before discussing her experiences working for Mikeron, where she was able to support herself for a while.

After that, the actual instruction in the preparation and cooking of Mikeron began, followed by the actual orientation. During the training, there was beneficiary participation. They were inquiring and listening carefully. From the initial planning stages all the way down to the packaging, they were carefully listening and raising inquiries. All of the participants were pleased and grateful that they saw a chance to start a business using Miki, even though their only experience with the product is in the creation of Pancit Guisado or Lomi. Following the session, attendees received certificates, and the guest speaker/trainer received a token of appreciation. Finally, utilizing the BatStateU ESO standard form, the trainees did an evaluation.

Training on the Proper Management of Vegetable Garden with a theme: "Matalinong Pamamaraan ng Pag-gugulayan: Pinagsamang Lakas ng mga Mag-aaral at Magulang sa Paaralan"

November 17, 2022



An initiative called Gulayan sa Paaralan gives students the delight of gathering their own food while teaching them the importance of cultivating vegetables. The project was postponed because of the pandemic since students and professors were unable to attend classes. Expert agriculture instruction was given to guarantee the vegetable gardens were restarted successfully. With the help of this exercise, kids and parents may learn how to properly plant crops and maintain vegetable gardens.

The training on the proper management of vegetable gardens was conducted on November 17, 2022, at 1:00 PM at Natalia V. Ramos Memorial Integrated School (NAVERA). The short program started with a prayer and singing of the national anthem, followed by the talk of the guest speaker, Asst. Prof. Mars G. Panganiban, Head of Research Development and Extension Services, BatStateU Lobo Campus. After discussions, the whole team, together with the students, went to their vegetable garden area. The activity ended with refreshments, and then an evaluation and other documentation were done right after.

**SDG 3: Good health and well-being***Ensure healthy lives and promote well-being for all at all ages.***143**

students, staff, and faculty members who donates blood

6

students who gave birth

5

Health outreach programs (extension services)

2

Technology transfer project to promote good health and well-being

9

Research on health and well-being

Highlights

2**blood letting activity**

One of the objectives of this year's extension services is to assist persons who needs blood transfusions, therefore two blood drive activities were held in collaboration with the Philippine Red Cross Batangas Chapter.

**3****Cultural Breakthrough**

La Obra Maestra 2022: Cultural Breakthroughs was organized by the College of Engineering Student Council. The ENCIRCLE, which aims to be the CoE's home for talents, is one of the main foundations of this activity. Another is the immersive and participatory program for students called Art to Heart Talk. However, the third activity is the HATAW 2022, wherein the students compete to showcase their abilities to communicate their feelings through dancing.





PROMOTING GOOD HEALTH



REACHED : Technology Transfer Web-based Virtual Nutritionist

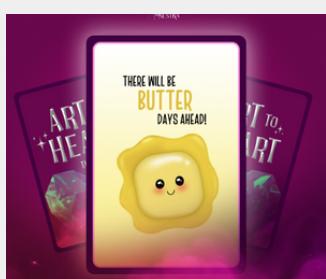
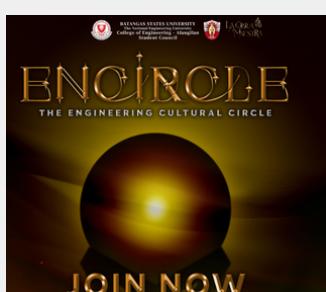
June 1, 2023

This is mainly about transferring the technology. Orientation and discussion on how to use it were implemented by the students of BSIT of the College of Informatics and Computing Sciences in partnership with the Batangas Hospital Nutritionist Dieticians. The organizers of this project created a user-friendly web-based nutritionist appointment system that will integrate the following Application Programming Interfaces (APIs) for appointment management: a BMI calculator, live chat, and the ability to get individually tailored nutritional guidance from registered nutritionist-dieticians.

Dugong Batangan: Isang Dugong Alay, para sa Batangueñong may Buhay

October 3-5 & December 17, 2022

Bloodletting is an adaptation of the Department of Health's existing National Voluntary Blood Services Program, which primarily promotes voluntary blood donation to ensure a sufficient supply of safe blood and aims to raise public awareness that blood donation is a humanitarian act. With this, the Chemical Engineering Department as well as the Extension Services Office, in partnership with the Batangas City Red Cross and PICHE Batangas, conducted a bloodletting activity because there are underserved people who really need assistance in various ways. This bloodletting drive provided and allocated a safe blood supply, sustaining its adequacy and ensuring accessibility, so a number of lives would be reached and saved.



La Obra Maestra 2022: Cultural Breakthrough: HATAW 2022, ENCIRCLE, Art to Heart Talk

August to November, 2022

The College of Engineering Student Council facilitated different activities for engineering students through La Obra Maestra 2022: Cultural Breakthrough. One of the main pillars is the **ENCIRCLE**, which is designed to be the home of talents in CoE, where students share passion for both culture and the arts through performing artistry on various stages and platforms. A minor activity under this cultural breakthrough is the **Art to Heart Talk**, wherein motivational emails are sent to CoE students and faculty members every month. Those letters are designed to encourage them to study and work positively, as well as to become healthy beings. Lastly, **HATAW 2022**, which is a major activity under La Obra Maestra, is a four-round dance competition where competitors perform solo dances in various genres to show off their skills and express their emotions. The sixteen contestants who lit the ground on fire in the floor battles have displayed some amazing skills. Because dancing may increase everyone's muscle tone, strength, endurance, and fitness, the council decided to incorporate the activity. Additionally, this is an excellent way for student organizations to build connections.

**SDG 4: Quality Education***Ensure inclusive and equitable quality education and promote lifelong learning opportunities.***2,308**

total number of graduates

1,083

total number of licensed engineers

3

foreign students

6

PPAs for quality education

5

Education outreach activities (extension services)

6

Research on quality education

Highlights

2**spartans bag spots in the 2022 Mechanical Engineering Board Examination**

The Mechanical Engineering board exams were conducted on August 13-14, 2022 at PRC testing centers. BatStateU Engineer Anthony O. Macalindong grabbed the 6th rank with 93.55% passing rate, and Engineer John Limuel B. Agillon on rank #9 with 92.90% passing rate.

**227/241****board passers from BatStateU - The National Engineering University**

In the August 2022 Mechanical Engineer licensure examination, Batangas State University - TNEU named top performing school with 94.19% or 227 out of 241 passed.



CAMPUS PASSING RATE IN THE LICENSURE EXAMINATION

DATE OF EXAMINATION	FIRST TIMER NATIONAL PASSING PERCENTAGE	NO OF EXAMINEES	NO OF PASSERS
BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING			
MAY 2022	<div style="width: 60%;">60%</div>	52	34
OCTOBER 2022	<div style="width: 59.4%;">59.4%</div>	52	22
BACHELOR OF SCIENCE IN CIVIL ENGINEERING			
MAY 2022	<div style="width: 45%;">45%</div>	222	152
NOVEMBER 2022	<div style="width: 49%;">49%</div>	269	163
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING			
APRIL 2022	<div style="width: 61%;">61%</div>	206	141
SEPTEMBER 2022	<div style="width: 57%;">57%</div>	185	127
BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING			
APRIL 2022	<div style="width: 45%;">45%</div>	7	6
OCTOBER 2022	<div style="width: 30%;">30%</div>	47	17
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING			
MARCH 2022	<div style="width: 60%;">60%</div>	176	157
AUGUST 2022	<div style="width: 58%;">58%</div>	241	227
BACHELOR OF SCIENCE IN SANITARY ENGINEERING			
JANUARY 2022	<div style="width: 60%;">60%</div>	42	21
AUGUST 2022	<div style="width: 58%;">58%</div>	35	16



LIFELONG LEARNING MEASURES



Panel Experts to the Capstone Projects of the Students

February 10-11, 2022

This Extension Project was a joint effort between the CICS and Lipa City Science Integrated National High School. The activity began on February 10, 2022, with an opening program at 8:30 a.m., followed by the proposal presentation at 10:00 a.m. Three faculty members from CICS served as panelists for the presentation, which the LCSINHS senior high school students were allotted one hour and thirty minutes to complete. On the first day of the activity, 5 groups presented, while 6 groups presented on the second day. During the presentation, each group was asked some questions by the panel and gave their comments and suggestions for the enhancement of the proposed capstone project. The activity was conducted virtually because of several pandemic-related restrictions.



ACTSeleration VI.0: Solving and developing basic and complex codes

May 7, 2022

This activity is specifically about some fundamentals of computer programming, including but not limited to creating and debugging codes of any complexity and resolving language-specific problems. On May 7, 2022, conducted online through Zoom, following the speaker-trainer's presentation and discussion was a Q&A segment to ensure that the audience members fully comprehended the issues that were covered. An evaluation form link was made available for the participants to view and voice out their comments and suggestions, as well as acquire crucial data from audience input to serve as a foundation for bettering future comparable events.



Sinsay-Agapay: CoE Alangilan-SC's Virtual College Tour

September 4-5, 2022

In a groundbreaking move to promote continuous learning and empower individuals throughout their lives, BatStateU-Lemery has launched an ambitious lifelong learning measure. With this pioneering initiative, the university provided accessible and flexible educational opportunities to individuals seeking to expand their knowledge and skills beyond traditional degree programs. The newly introduced measure, aptly named the Lifelong Learning Program, designed to cater to the diverse needs and aspirations of learners at different stages of their lives. Recognizing the importance of adapting to the rapidly evolving job market and societal changes, BatStateU-Lemery has taken a proactive approach to supporting lifelong learning for personal growth, career advancement, and overall intellectual enrichment.

SPARTAN CONNECT

PROJECT AGAPAY

P250,000
TOTAL AMOUNT

Spartan Connect and Project Agapay

January 8, 2022

The pandemic had an impact on the students since we transitioned from face-to-face to online learning. As a result, our fellow students experienced a range of challenges that impacted their academic progress. For these reasons, the SSC- Alangilan Campus created **SPARTAN CONNECT** and **PROJECT AGAPAY** to help individuals in need. Four chosen beneficiaries were provided by a desktop computer, ten cellphone units, ten scientific calculators, and twenty WiFi units were handed over to the chosen beneficiaries. Lastly, five chosen beneficiaries were granted financial assistance sponsored by Engr. Ismael Agasino.



SDG 5: Gender Equality

Achieve gender equality and empower all women and girls.

27

316

4

3



senior female
academics



first-generation
female students



Extension PPAs
integrated with
gender perspective



Research on gender
equality

Highlights

100% of OJTs and student trainees are aware of the Safe Spaces Act

Republic Act No. 11313: Safe Spaces Act (Bawal Bastos Law) Orientation, provided by the OJT Office in partnership with extension services and the GAD Unit of Batangas State University Alangilan Campus, was implemented to raise awareness among OJTs and student trainees who are soon to graduate to know the technical know-how to prevent harassment during OJT days and especially when they are in the workplace after graduating.



4

extension PPAs integrated with gender perspective

This year, extension services implemented four PPAs promoting gender equality. This is intended to provide awareness, which can be started by oneself. Additionally, this is how the University will advocate for the abolition of various forms of violence.





GAD ADVOCACIES



2022 National Women's Month Celebration: We Make CHANGE Work for WOMEN; Agenda ng Kababaihan, Tungo sa Kaunlaran

March 22-29, 2022

The GAD office, in coordination with the student organization from the College of Teacher Education and the College of Industrial Technology of BatStateU Balayan Campus spearheaded an activity in relation to the celebration of National Women's Month Celebration 2022 on March 22-29. This is to widely recognized women's milestone for their extraordinary roles in all spheres of society. Also, this month-long celebration aims to raise awareness about women's struggles for gender equality and their rights.

Orientation Seminar for OJT Coordinator and student trainees: "Republic Act No. 11313: Safe Spaces Act (Bawal Bastos Law)"

May 25, 2022

This activity addressed the concerns of the student trainees with regards to technical know-how in the Republic Act No. 11313, or the Safe Spaces Act. This act aims to create a safer environment for everyone by penalizing all forms of gender-based sexual harassment in public areas such as streets, privately owned places open to the public, and public utility vehicles, among others.

The webinar was catered by the OJT Office in collaboration with extension services and the GAD Unit of BatStateU Alangilan Campus and was accessed virtually through Zoom Live Conference and Facebook Live.

2022 18-Day Campaign to End Violence Against Women UNiTEd for a VAW-free Philippines

November 25 - December 12, 2022

The 18-Day Campaign to End VAW was held simultaneously in eleven (11) campuses of the University particularly five constituents campus and six extension campuses. During the kick off activity, Official End VAW streamers/tarpaulin were posted in entrance and exit gates of the campuses to express the University's participation in the campaign. Also Faculty members, employees and students were requested to apply and use the digital campaign materials for the celebration of the 18-Day Campaign to End VAWC such as the Facebook frame support to the campaign and use the caption for the campaign.



SDG 6: Clean Water and Sanitation

Ensure availability and sustainable management of water and sanitation for all.

32,778.81 m³



annual total water consumption

1.57 m³



annual water consumption per capita

3



Water management
(extension activities)

2



Research on clean water and sanitation

14



native trees in the campus

21



native plants in the campus

Highlights

100% drinking water samples passed the microbiological test

To ensure high water quality standards on campuses premises, BatStateU Balayan Campus conducted the monitoring and testing of water potability. As a result, sources samples from OCD, EEB-CR, Beside clinic, Registrar, RER-CR, Main Faucet, Clinic, maintenance, old canteen, admin, Kitchen, and GEB-CR successfully passed the microbiological test

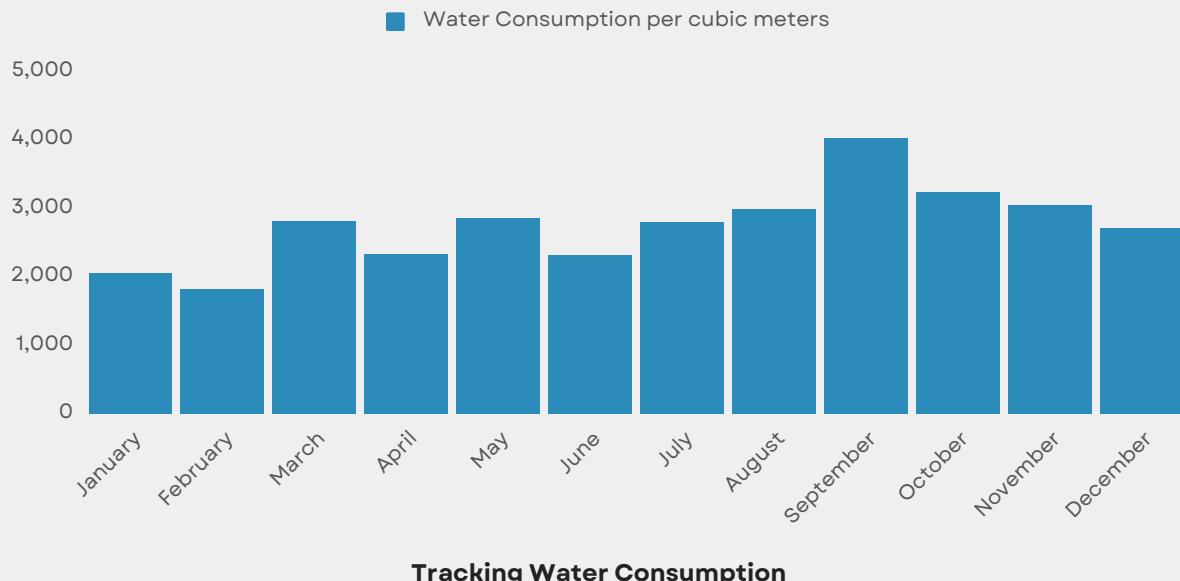


28% of plants and trees in the campus are native

As per the records from Environmental Management Unit of BatStateU Alangilan, twenty-eight percent (28%) of the one hundred twenty-three different types of trees and plants on campus are native. On campus as well, there are twenty-one (21) different native plant species as well as fourteen (14) native tree species.



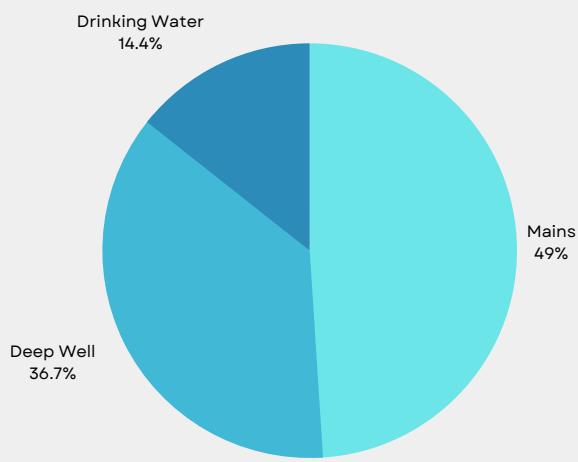
Water Consumption



Tracking Water Consumption

There is a clear pattern of water consumption throughout the year. During the month of September, water consumption reaches its peak, indicating increased usage for outdoor activities like gardening, drinking, and recreational water use. This could also be due to a specific event or circumstance during that month, such as a burst pipe, a local festival or event that required extra water usage, or any other exceptional factor that led to increased consumption. Conversely, in the month of February, water consumption is notably the lowest, suggesting reduced outdoor water usage and potentially more efficient indoor water management.

The graph highlights opportunities for water conservation initiatives. By focusing on reducing peak water consumption during higher months or addressing the anomaly. Efforts can be directed towards promoting water-efficient practices, educating the community about responsible water use, or identifying and addressing any water waste or leaks.



As per the recorded water consumption of Alangilan and its extension campuses, there are three water sources: the main source, a deep well, and drinking water.

The highest water consumption was from the main source, which has a total of 16,046 m³ and is equivalent to 49%, followed by the water consumed from deep wells one and two in the Alangilan Campus, which is 36.7%, or 12,015 m³. The least consumption of water was from the records of the resource generation office, which is drinking water, and has a total of 4,703 m³, or 14.4%.

Percentage of consumption per water source

↑ 41.37%

increase on water consumption compare to previous year

19,212.97 m³

water consumption in the previous year



WATER MANAGEMENT



Ensuring Water Quality through Monitoring and Testing of Water Potability

Conducted Quarterly 2022

A proactive measure to ensure the highest water quality requirements on college grounds is water potability monitoring and testing. The campus rigorously evaluated numerous criteria through routine monitoring and analysis to guarantee the quality and security of the water supply. The campus evaluated elements like pH levels, microbiological content, chemical contaminants, and overall water purity by ordering laboratory testing from a third party. Through ongoing observation, possible water-related problems are promptly identified and mitigated, protecting the health and safety of all campus residents.

Technology Transfer of Spring Water Filtration System {SWFS}

May to June, 2022

This is the Design and Development of the spring water filtration system in Talumpok, Silangan, Batangas City. The development of this project will be conducted in the area of Talumpok Silangan Batangas City, where the source of water is located. The researcher assured that this project will benefit the beneficiary that they have chosen. Researchers conducted a survey to determine if the residents were fully satisfied with this project.

This study's general objective is to implement a waterway that will remove the physical elements that cause blockage through the installation of a water filtration system.



i-Connect: Brigada Eskwela Tugon sa Hamon ng Ligtas na Balik Aral, Lipa City Science Integrated National High School

August 9, 2022



With the joint forces of BS IT, BS CS, MIT, and MS CS, the i-Connect has been conducted in Lipa City Science Integrated National High School in Lipa City wherein its covered the scope of work conducted, resource mobilization, school personnel participation and community involvement. In addition Brigada Eskwela broadened community support to basic education relative to curricular activities enrichment, physical facilities improvement and unity purpose. It is the product of collaborative effort, taps the spirit of volunteerism and allows the people from different sectors to extend to help to the schools every year. Also, this is to ensure the access to safe water, functional toilets and proper hygiene practice in schools creates the safe and conducive environment for children to optimally participate and achieve the learning outcomes. Thus, the need to ensure that water, sanitation and hygiene (WASH) facilities are adequate in number and well-maintained and the necessary hygiene and cleaning supplies are available in schools.

**SDG 7: Affordable and Clean Energy***Ensure access to affordable, reliable, sustainable and modern energy for all.***971,810 kWh**

annual total electricity consumption

46.69 kWh

annual electricity consumption per capita

1,834.89 L

annual total fuel consumption

2

Local community outreach for energy efficiency

1,672

students with electricity access

16

Research on clean energy

Highlights

5 in 1**Extension Program called Project DICLAP by Electrical Engineering students**

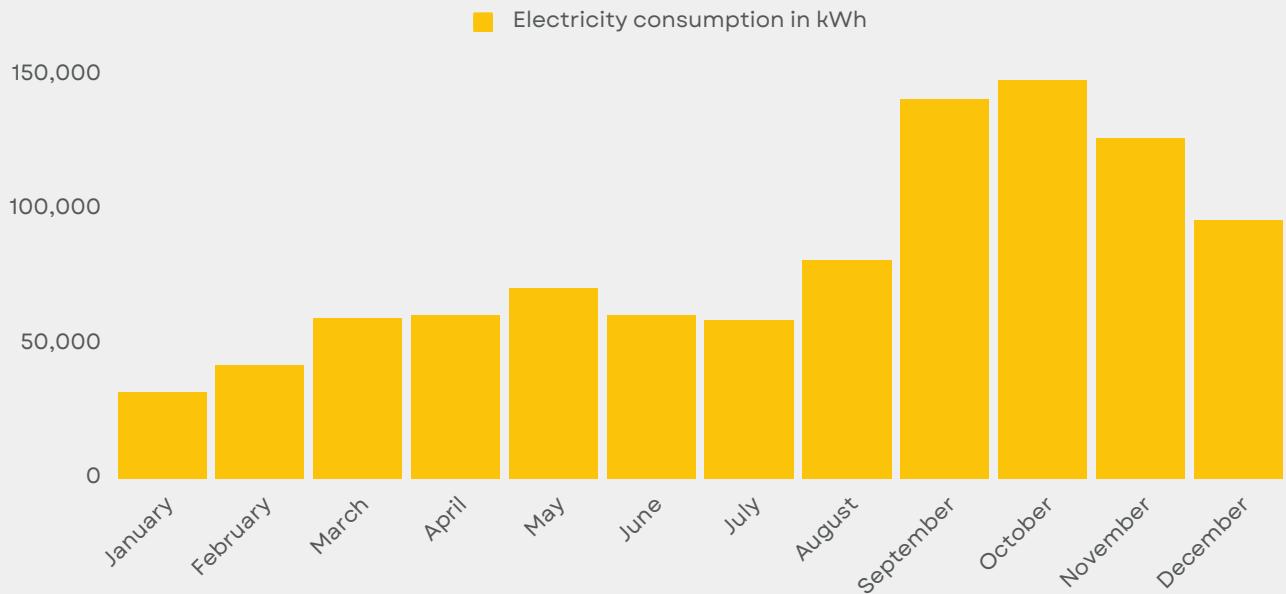
JIIEE BatStateU Chapter successfully conducted five activities in one extension project composed of (1) a Basic Electrical Safety Awareness Seminar, (2) story-telling sessions to raise awareness about electrical safety among children, (3) Christmas Caroling, (4) gift-giving, and (5) Oplan DAGITAB: Bigay Liwanag, an activity to provide solar street lights to hand over in Brgy. Wawa, Batangas City, to bring them affordable, safe, and clean energy.

**16****researches on clean and affordable energy**

Students of BatStateU Alangilan published 16 theses and dissertations related to environmental problems directly connected to energy production and consumption and how their research can help everyone generate energy that produces no greenhouse gas emissions from fossil fuels and reduces some types of air pollution.



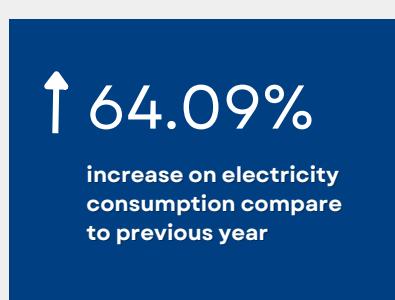
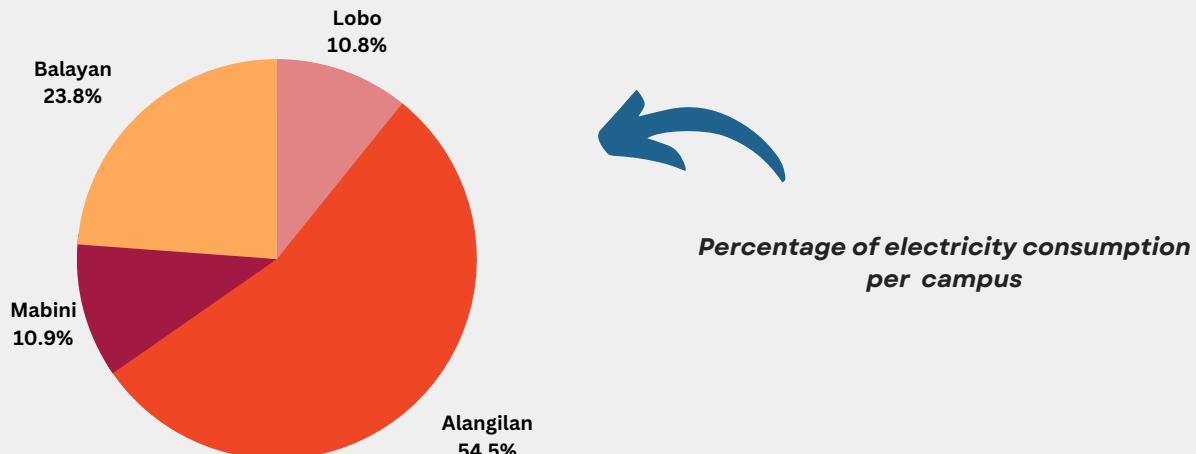
Energy Consumption



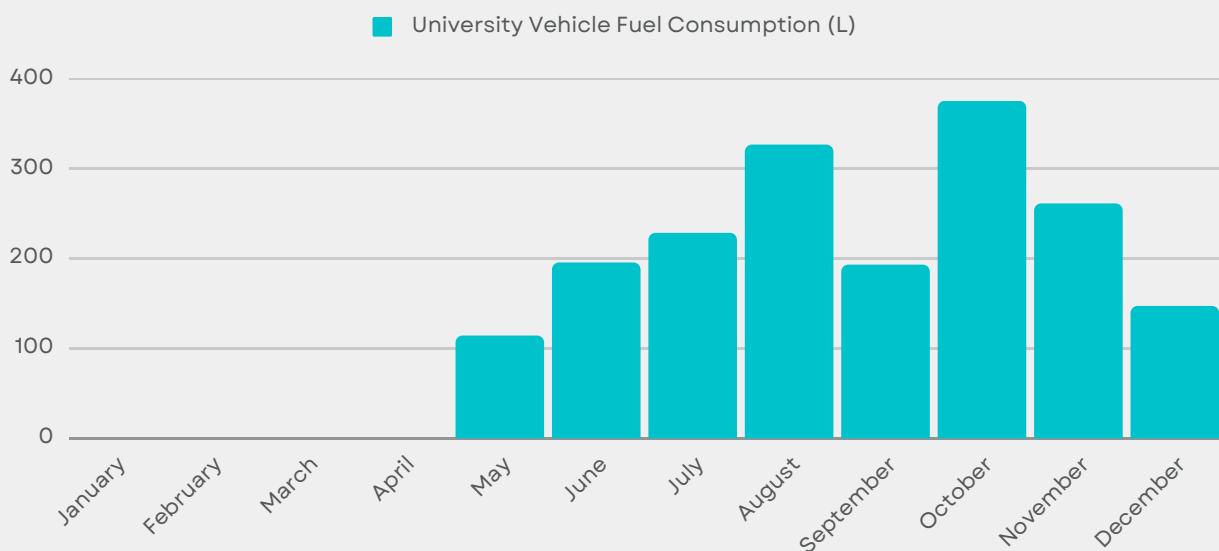
Tracking Electricity Consumption from Non-renewable Sources

The total amount of energy required for a given process in Alangilan and its extension campuses is measured in kilowatt hours (kWh). According to statistics, the first month always has the lowest usage, at 31,610 kWh, while the largest consumption, at 147,800 kWh, occurs in October.

The university's objectives are to turn off computers after office hours or put them to sleep when not in use, turn off lights when a room is empty and unoccupied, unplug chargers and other electronics, and turn off scanners and printers after use. Since LED bulbs are the most energy-efficient option, procurement also chooses to buy them. These simple steps can help the campus reduce its use of electricity.

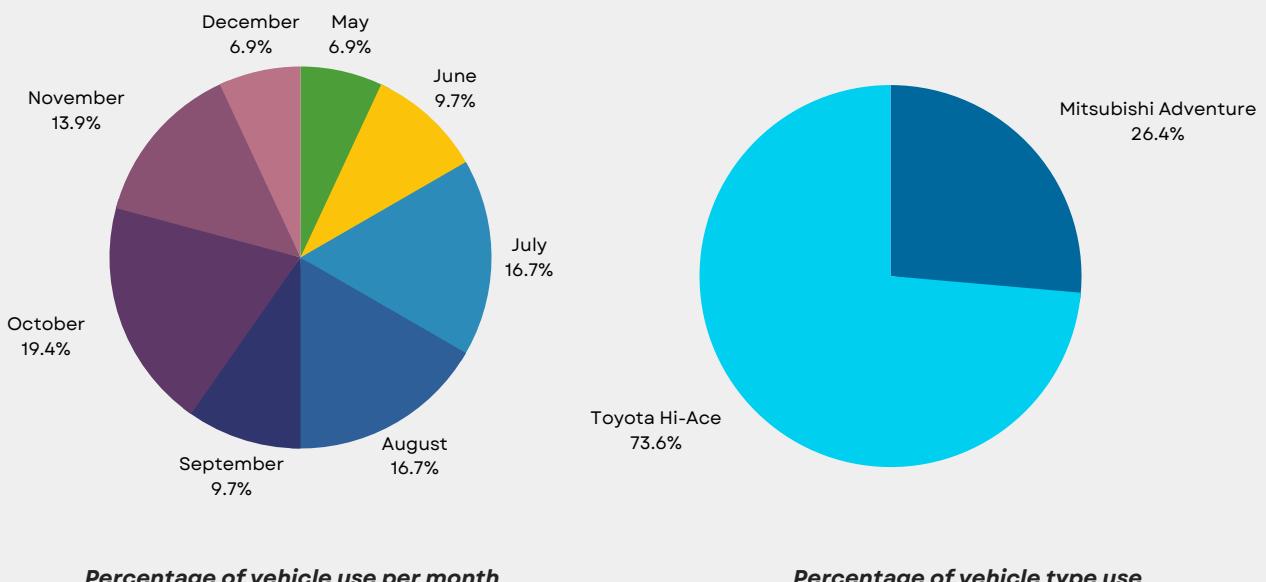


Energy Consumption



Tracking Fuel Consumption

Liters (L) are the units used to measure the total amount of fuel consumed at Alangilan Campus. Records show that during the month of October, the University's Toyota Hi-Ace vehicle used a total of 374.44 Liters of diesel, which has been used 14 times since fuel usage peaked. The university's Mitsubishi Adventure, which has only been driven five times, consumed the least amount of gasoline in May, consuming just 113.41 liters of diesel.



↑97%

increase in the consumption
of non renewable energy
after pandemic

51 L

non renewable energy
consumption in the
previous year



MEASURES TOWARDS CLEAN ENERGY



Gradual Shift from Incandescent to LED Bulbs

October 14, 2022

In 2022, BatStateU Balayan embarked on a transformative project to replace traditional incandescent bulbs with energy-efficient LED alternatives. The goal was to reduce the campus' electric bill and minimize its carbon footprint. LED bulbs were chosen for their significantly lower energy consumption, promising a substantial impact on the overall energy usage of the campus.

As part of this effort, they requested the procurement of 15 LED bulbs specifically for the campus' street lights. This move aims to completely

replace all incandescent bulbs in the street lighting system, ensuring a more efficient and environmentally friendly illumination solution. On October 14, 2022, the campus began replacing the bulbs: five incandescent bulbs in the street lighting system were replaced with LED bulbs.

Project DICLAP (Dynamic Ignition in Empowering Community through Leadership and Partnership)

2022 - 2023

Junior Institute of Integrated Electrical Engineers (JIIEE) - BatStateU Chapter successfully conducted a face-to-face extension activity called Project DICLAP Christmas Caroling and Gift Giving for Phase 1 and Installation of solar street lights as an alternative source of lighting in Barangay Wawa, Batangas City for Phase 2.

The project's success was made possible through coordination with the Sangguniang Kabataan and Barangay Officials of Barangay Wawa, as well as partnerships with organizations and agencies. The Batangas City Bureau of Fire Protection collaborated with JIIEE to conduct two activities focused on electrical safety awareness. The first activity, called Be Aware and Safe in Community every Season (BASICs), involved a **Basic Electrical Safety Awareness Seminar**. The second activity, EESkwela ta, Mga Bata, featured JIIEE Officers conducting storytelling sessions using the ZAP Book, which was published in collaboration with the IIEE - CSC Cebu Institute of Technology-University Chapter, to raise awareness about electrical safety among children.

As part of the OPLAN DAGITAB: Bigay Liwanag project, the solar street lights were handed over to the Barangay Officials of Barangay Wawa, marking an important milestone in bringing affordable, safe, and clean energy to the community.

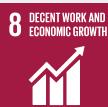


Theses and Dissertation related to Affordable and Clean Energy

January-December 2022

A total of sixteen published theses and dissertation at BatStateU Alangilan Campus is about affordable and clean energy. Most of the study is about designing, development and installation of solar powered panels which can be used to supplement a building's electricity or provide power at remote locations. This is because solar energy is clean and it creates no carbon emissions or other heat

trapping "greenhouse" gases. Also, they wanted to develop those projects to avoid the environmental damage associated with mining or drilling for fossil fuels. Also, most of the author of the theses and dissertations are from Bachelor of Science in Electrical Engineering since their courses are mostly related to renewable energy.



SDG 8: Decent Work and Economic Growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

Php 472,508,891.95



annual campus expenditure

Php 22,700.40



annual campus expenditure per capita

161



permanent employees

17



PPAs related to community employment (extension services)

11



Research on economic growth and employment

Highlights

18%

of employees have permanent status

As per HRMO department, Alangilan and its extension campuses have a total of 161 permanent employees as of this year. Ninety-two of them are female, and the remaining sixty-nine are male employees.



46%

of the campus budget was used

A total of **472,508,891.95** pesos was used in personnel services, capital and MOOE of the Alangilan and its extension campuses. It is only **46%** of 870,266,312.47 which is the total campus budget. In line with this, the 2022 annual campus expenditure per capita is amounted to **22,700.40** pesos.



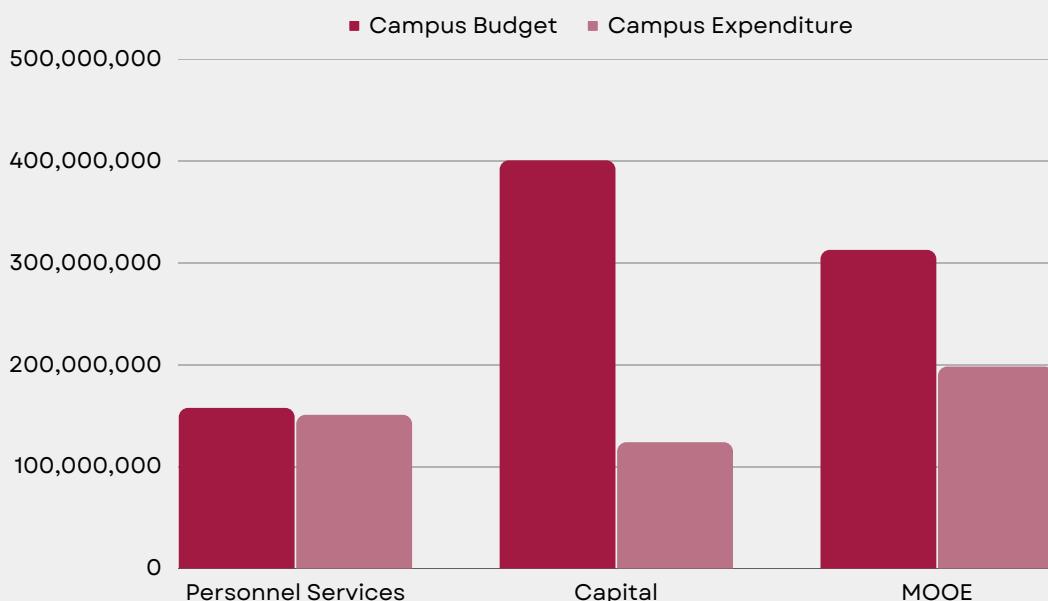
8

companies joining Virtual Job Fair

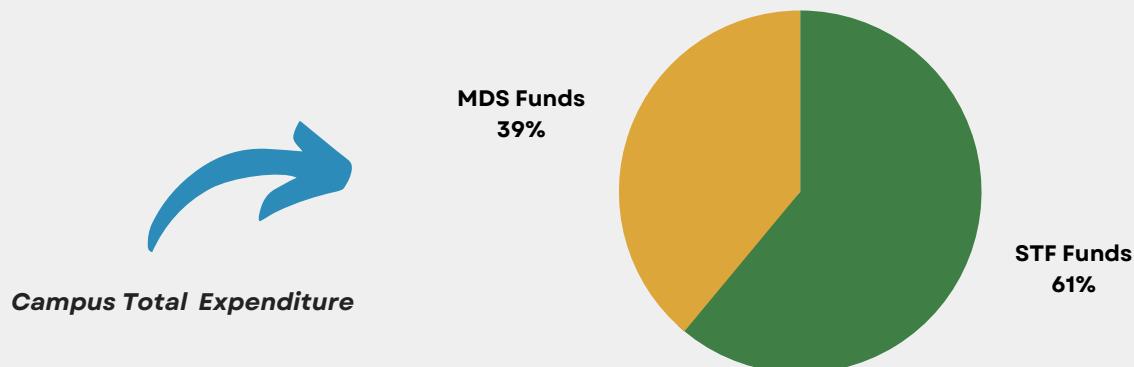
As part of the College of Engineering at BatStateU's Celebration of their 50th anniversary, they facilitated a Virtual Job Fair on May 2, 2022, from 10:00 a.m. to 5:00 p.m. They have invited all engineering graduates and graduating students.



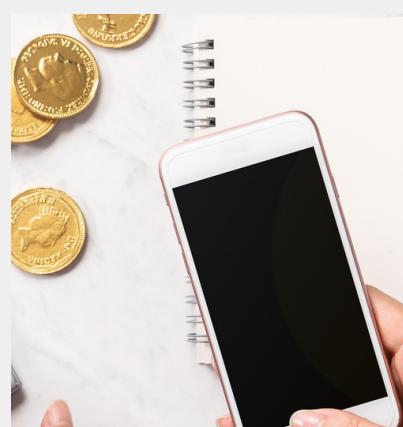
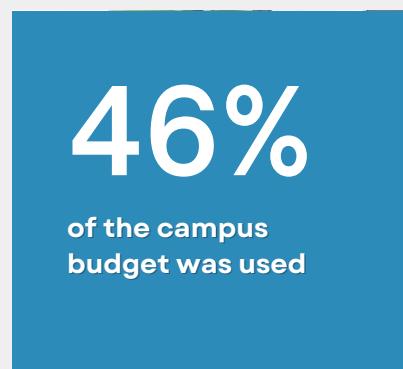
Campus Expenditure



Effective management of the present budget is crucial to addressing the needs of the institution in a time of expansion. Accordingly, personal services, capital, and MOOE of Alangilan and its extension campuses accounted for **Php 472,508,891.95** or less than half of the campus budget which is **870,226,312.47**.



46%
of the campus
budget was used





SUSTAINABLE EMPLOYMENT PRACTICES



REACHED (TechTrans): MARBECO Money Lending Application

April 11, 2022

In particular, this project aims to transfer technology to the Pinamalayan, Mindoro-based MARBECO (Manguyang Agrarian Reform Beneficiaries Cooperative) Lending Office. The system contains all of the specified office's everyday transactions. Initially, there was a brief instruction, then training. From BatStateU Alangilan College of Technology, students Elgie De Luzon, Erven Joshua Cabral, and Vhaley Fiestada led the excursion. Following the training, faculty experts and students participated in an open forum to answer questions from the audience. Through Google Meet, faculty specialists attended the training. And after distributing certificates to the recipients and making some last remarks, the program came to a conclusion.

Online Profiling System for Farmers of OCVAS in Bolbok, Batangas City

4th quarter of 2022

This is a project that initiated the design and development of an online profiling system for the office of the City Veterinary and Agricultural Services. The profiling system used flow-level information from continuous packet or flow monitoring systems, and uses data mining and information-theoretic techniques to automatically discover significant events based on the communication patterns of end-hosts. It is designed to identify and develop an appropriate system for the staff. This action plan was analyzed through data gathering and data interpretation which identified the best plan to be proposed to the Office of the City Veterinary and Agricultural Services (OCVAS).

Partnership with Barangay Tulo, Batangas City in the conduct of TVET Programs with a theme: "TVET for the People"

December 1, 2022

BatStateU Alangilan Campus' College of Industrial Technology Major in Electrical and Electronics students conducted and activity to extend services to various communities by providing trainings that are in line with the College expertise. The activity was conducted face-to-face at Brgy. Tulo, Batangas City last December 01, 2022 at 9:00am. This is with the assistance of the barangay officials and other barangay members. Technical and vocational education and training' (TVET) is understood as comprising education, training and skills development relating to a wide range of occupational fields, production, services and livelihoods.



MIKERON Livelihood Training Part II (MLT- II): "Stratehiya at Tamang Pamamaraan ng Pagkita para sa Maunlad na Kinabukasan"

June 1, 2022

In response to the economic challenges faced by many families, particularly during the pandemic, organizations like Gawad Kalinga are stepping up to assist underserved families in improving their lives. The College of Industrial Technology of BatStateU Alangilan is actively contributing to this cause by providing knowledge and extended services to create additional income-generating opportunities for these families. Following the success of the first Mikeron Livelihood Training (MLT) held on March 17, 2022, a second part of the training, focusing on "Costing and Pricing," has been planned. This additional training aims to further support the beneficiaries and ensure the success of the MLT program. With such initiatives, families can have a chance to enhance their daily lives and overcome the challenges brought about by the pandemic and related rules and regulations.



SDG 9: Industry, Innovation and Infrastructure

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

1,661



students who have access to internet

84



STEM academic Subject Area

4



Arts and Humanities/Social Sciences academic Subject Area

19



PPAs related to industry, innovation and infrastructure (extension services)

25



Research on industry, innovation and infrastructure

Highlights

12

technology transfer projects

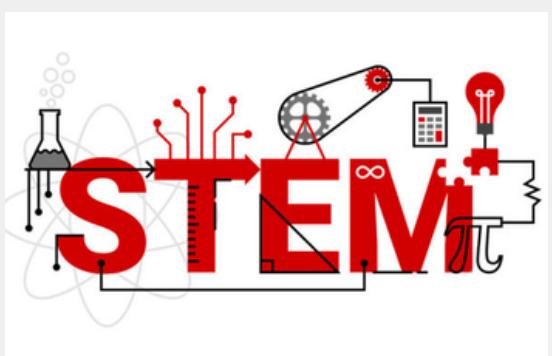
As part of Innovation, there are twelve project programs activities related to industry, innovation and infrastructure that is organized and implemented by different colleges and offices in Alangilan Campus and its extensions. Specifically those projects is about transferring technology for easier transactions considering existing and available locally materials.



95%

of the programs has a STEM academic subject area

In eighty eight programs of Graduate and Undergraduate Programs in BatStateU Alangilan and its extension campuses, ninety-five percent (95%) has the subject area of Science, Technology, Engineering and Math (STEM). These four fields share an emphasis on innovation, problem-solving, and critical thinking.



19

extension PPAs related to 3 I's

This year's PPAs related to Industry, innovation, and Infrastructure have a total of nineteen, which were conducted by the extension services of Lobo, Alangilan, Mabini, and Balayan Campuses. Those actions were planned to carry out the innovation objective.





SUSTAINABLE INNOVATION



Food Manufacturing Plant Design Webinar by CEAFA- Chemical Engineering Department

April 23, 2022

To inspire students and professionals alike in the continuous innovation of current equipment and plant designs existing in food manufacturing industries and hone their skills in developing plant design as part of their future career as food engineers through the provision of workshops as well as promoting and bringing into the mainstream emerging innovative ideas and modern equipment designs as inspiration for future design ideas, the chemical engineering department conducted an informative webinar for high school and College Students and industry professionals. This is also conducted to improve their knowledge on building a plant as well as maximize their learning on the application of unit operations as well as the synthesis and optimization of chemical process principles.



Technology Transfer of Barangay RRMCI (Residents Record Management and Certificate Issuance)

June 27, 2022

The Barangay RRMCI website serves two end users, the barangay captain and secretary, providing a user-friendly interface to manage resident records, certificates, and clearances. It's fully functional and accessible online, supporting various web browsers. The developers offer client and admin manuals, along with tutorial videos for website hosting, renewal, and maintenance. For inquiries, users can contact the developers. Renewing website hosting may require an additional payment, properly endorsed to the clients. Overall, it enhances services for residents and streamlines administrative processes.



REACHED - ALERT: A Mobile Application for Disaster Risk Reduction Management for Municipality of Lemery

November 28, 2022

To provide useful information to citizens on how to be prepared for the different types of disasters and be updated regarding the weather conditions, BatStateU Alangilan College of Informatics and Computing Sciences BS Information Technology students proposed a project design specifically about transferring the technology: ALERT: A mobile Application for Disaster Risk Reduction Management for the Municipality of Lemery. This system will help to manage and monitor the reports and updates of MDRRMO. During the technology transfer, the system will be introduced, users will be trained on the system, and questions, critiques, and suggestions will be entertained for the improvement of the system.



Technology Transfer of Ergonomically Designed Motorcycle Lifter

April 19, 2022

The Technology Transfer of Ergonomically Designed Motorcycles project was conceptualized as a response to the automotive students' needs for an ergonomically designed and practical technique of lifting motorcycles for the purposes of small-engine repair and maintenance services. On April 19, 2022, the TVL Automotive Servicing Track at Calaca Senior High School was summarized into a one-day event.



SDG 10: Reduced Inequalities

Reduce inequalities within and among countries.

216

students

8

employees

9



students and employees who are members of LGBTQIA+ community

10



PPAs connected in reducing inequalities (extension services)



Research on reduced inequalities

Highlights

3

activities for LGBTQIA+ Community led by PAPAGAYO

Party of Averse and Progressive Advocates for Gender Affinity and Youth Oneness (PAPAGAYO) conducted activities for LGBTQIA+ Community which are the Pride Month in June to celebrate their diversity and create a more inclusive society, the BACCHANALIA in September and the "Into the Unknown: Ignite your True Self" last November 29, 2022 which is a seminar that aims to orient students about Sexual Orientation, Gender Identity and Expression, and Sex Characteristics.



9

PPAs connected in reducing inequalities

With the help of Extension Services Office of Alangilan and its extension campuses, nine (9) project program activities are implemented related to reducing inequalities. Seven of the PPAs are for students, faculty members and staff while the remaining two are for frontliners in local government units and for childrens residing at Rosario Batangas.





REDUCING INEQUALITIES

E-SULAT Strengthening and Upgrading Research Skills and Capabilities in Science and Technology of Secondary Teachers in Preparation of Students for Higher Education

June 30, 2022

The Chemical and Food Engineering Department's Adopt a School Program, which focuses on enhancing instructors' and students' professional



development in terms of research capacity and skill development, includes this initiative. In May 2021, the MOA/MOU was already signed. At Ibaan St. James Academy, Inc., this activity was carried out. Poblacion Ibaan Batangas This project gave engineering faculty members the knowledge, teaching, and learning skills they needed to improve teachers' proficiency in research techniques and better equip senior high school students for research.



Malayang Hayag v2.0

September 12-December 11, 2022

The BatStateU Alangilan College of Engineering Student Council promotes the fair use of students' voices by unifying them to express their thoughts, opinions, and positions on various social issues that pertain to their rights as students, citizens, and future members of this country's professional community, which is aimed through Malayang Hayag. This included students and young people actively discussing problems that they face. It also gave students awareness and education on events and issues in society. This is a way to practice mindfulness, be more expressive, and be comfortable talking with colleagues.

“Bata..Bata..Paskong Anong Saya! – A Gift-Giving Activity for Christmas Season

December 19, 2022

The Gift-giving activity was conducted face-to-face on December 16, 2022 and this is to express love during Christmas Season. The number of children was already identified and will be organized to be ready on that day by those families with children in coordination with one of our faculty members who is also residing in the same place. All the gifts given came from the faculty's voluntary contributions. The team departed at 8:00 a.m. from the BatStateU Alangilan Campus and arrived at the site by 9:30 a.m., then they started the activity.





SDG 11: Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable.

56,200 m²



total campus land area

41,377



guests visiting the campus library, museum, theater, exhibition spaces and green spaces (annum)

12



total number of performances of campus choir, theater, band and dance groups (annum)

Php 3,663,680



total campus budget allocation for culture and arts

11



PPAs related sustainable communities (extension services)

66



Research on industry, innovation and infrastructure

Highlights

3.6
million
pesos

**budget allocation
for culture and arts**

The campus allocated 3,663,680 pesos for arts and culture because they believe it offers much more than aesthetic enjoyment; it can also provide a space for individuals to explore their creativity, reduce stress levels, and stimulate cognitive abilities for the benefit of current and future generations. Also, arts and culture play an important role in the educational and economic lives of students, faculty, and staff, apart from being an organic repository of our cultural heritage.



5

**performances from constituent
campus to highlight the ART**

Showcasing the university's value and appreciation in culture and arts, various talents from both teacher and student Red Spartans flaunted their talents in "Cooltura with heART: Kultura at Sining ng Batangas State University," held at CEAFA Amphitheater, BatStateU, The NEU Alangilan Campus, December 22. Performances from Lipa, Alangilan, Pablo Borbon, Malvar, and Nasugbu Campus highlighted the art of the academy they are presenting.



2.73

**hectares acquired for the Knowledge,
Innovation, and Science Technology (KIST)
Park**

History was made last July 20, 2020 as BatStateU officially launched the country's first Knowledge, Innovation and Science Technology (KIST) Park which aims to expand the university's programs for industry, academe, market synergy, technopreneurship, business incubation & acceleration, and knowledge co-creation in science and technology.





SUSTAINABLE COMMUNITIES

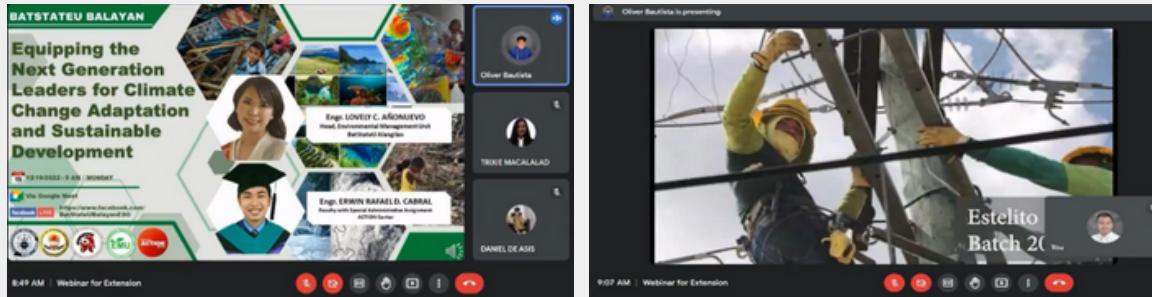


GEAR-UP: BatStateU NEU Balayan Campus Technology Transfer Program

November 10, 2022

BatStateU Extension Services, in partnership with the College of Industrial Technology of BatStateU Balayan Campus, aim to assess the needs, problems, or gaps in the community related to technology. That is why Project Gear-Up was developed. It is one of the flagship extension projects of the campus, in line with the university's commitment to rendering service to the community and reaching out to the

grassroots levels of society. Specifically, it is congruent with the aim of the university to help the target beneficiaries by providing appropriate technology that would help them equip and empower people in the community. Also, it is a collaborative process that engages community stakeholders in determining the nature and extent of both the needs and resources of the place.



Equipping the Next Generation Leaders for Climate Change Adaptation and Sustainable Development

December 19, 2022

Using their combined strengths, CTE, CICS, and the Extension Service Office of the BatStateU Balayan Campus effectively carried out a campaign to raise awareness about the importance of preparing the next generation of leaders for sustainable development and adaptation to climate change. The Ecological Solid Waste Management Act of 2000, also known as Republic Act 9003, which gives local government units (LGUs) the necessary institutional framework, policy framework, and mandate to achieve 25% waste reduction through the establishment of integrated solid waste management plans based on the 3 Rs (reduce, reuse, and recycle), was the subject of a lecture by Ms. Lovely Aonuevo, head of EMU at BatsStateU Alangilan Campus.

The second session focused on DRRM/CCA and climate-related disasters that the Philippines is susceptible to. Engr. gave a talk about it. Erwin Rafael Cabral, a professor with a special administrative assignment at the ACTION Center, spoke about the various past and potential natural disasters that could still happen in the Philippines. He emphasized how the Philippines' physical location within the typhoon belt and other factors, such as climate change, contributed to some of the big disasters that occurred there, particularly the storms and typhoons that struck the nation in recent years. Both Google Meet and Facebook Live were used to stream the webinar. During the open forum, participants had the opportunity to ask any questions they had and followed by giving of certificates. Additionally, participants were instructed to respond to the evaluation using the URL that was posted in the chat box and the live stream's comment section.



SDG 12: Responsible Consumption and Production

Ensure sustainable consumption and production patterns.

37,966.86 kg



campus waste generated

1,210.50 kg



campus waste recycled

5



PPAs related to responsible consumption and production (extension services)

61



Research on responsible consumption and production

Highlights

3.19%

of campus wastes are recycled

Solid waste that is separated from the waste stream and set aside for recovery, reuse, and recycling is referred to as recyclables. To lessen waste on campus, paper, tin cans, and bottles have been recycled, according to the EMU office on the Alangilan campus.



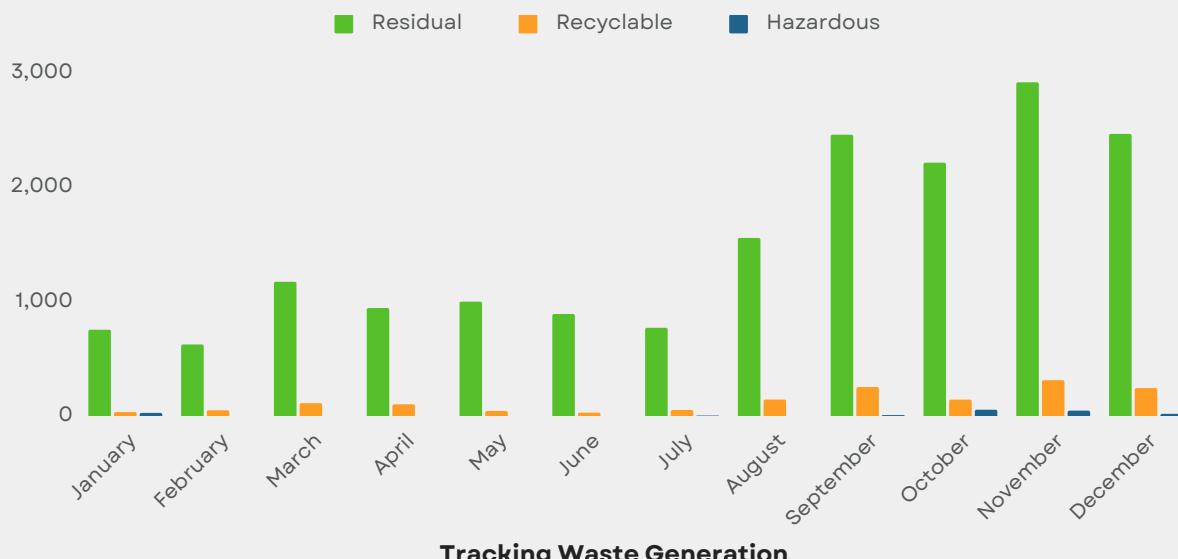
5

PPAs related to responsible consumption and production

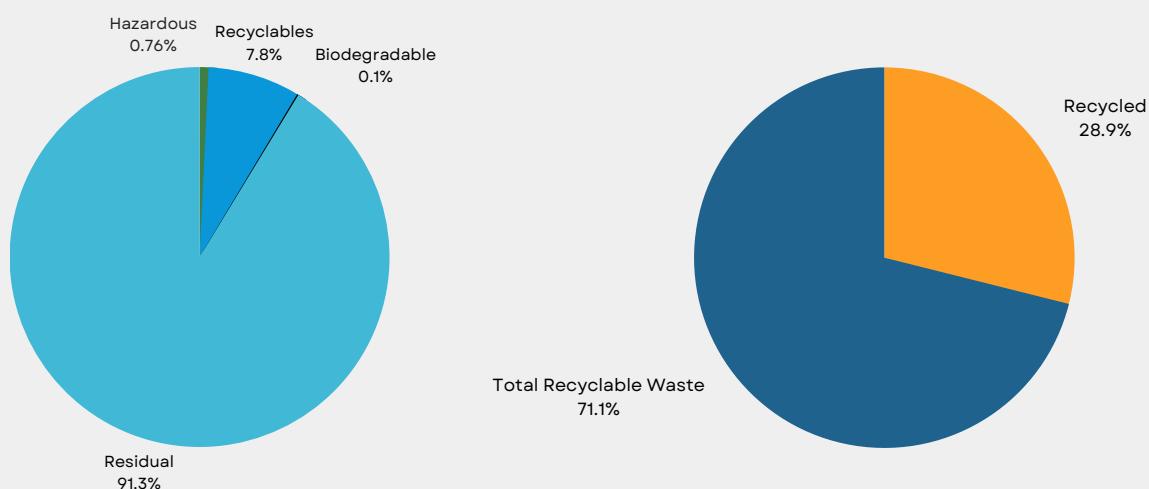
Extension services implemented project program activities to help manage wastes inside and outside campus. Those activities are designed for students, staff and faculty members as well as the whole community outside campus to be aware and ensure sustainable consumption and production patterns, especially to reduce wastes.



Waste Management



The month of March has the highest waste generated, composing 6,319 kg of residual, hazardous, and recyclable types of waste, while the month of July has the lowest waste generated, composing 819 kg of residual, hazardous, and recyclable types of waste. Most of the waste from Alangilan and its extension campuses is residual waste.



Proportion of Waste Generation

According to the aforementioned ratio, residual garbage created 91.5% more litter than recyclable waste, which has a percentage of 7.84%. On the other hand, with 0.78% and 0.11%, respectively, the lowest percentages generated, are hazardous and biodegradable wastes.

Proportion of Recycled Waste

In accordance with the ratio above, only 28.9% of garbage on the Alangilan Campus and its extensions is processed to recover materials for human use.

↑85%

increase on waste generation compare to previous year

5,676.80 kg

waste generated in the previous year



PROMOTING CIRCULAR ECONOMY



Design and Development of Ergonomic Seedling Production Workstation in Tanauan City Demo Farm

April 26-30, 2022

The study aims to address ergonomic issues experienced by workers at the Demo Farm. It involves gathering data on the seedling production process using Industrial Engineering tools like RULA, REBA, and Trade-Off Analysis. A trade-off questionnaire will be distributed to panel members, fabricators, and workers to determine the best ergonomic seedling production workstation design.

Effectiveness will be tested based on three parameters: productivity, ergonomic factors, and safety. The ergonomic seedlings production workstation will be implemented at Tanauan City Demo Farm for five (5) days. Any necessary modifications will be made after testing the workstation to improve its design and functionality.



EDUCAF 3: Training on Propagation, Plantation Management and Post-Harvest Processing of Kapeng barako under BARAKO Project

March 18-19, 2022

BatStateU Lobo Campus College of Agriculture and Forestry came up with the idea of helping farmers manage their coffee farms through effective propagation, plantation management, and post-harvest processing of kapeng barako. The training was conducted at the Smart Demo Farm established by the project team and the private coffee farm. Specifically, this project aimed to collaborate and involve LGUs and stakeholders in the extension component of the BARAKO project as well as produce and disseminate three localized modules and training packages on the propagation and production of Kapeng Barako for the farmers and other stakeholders. This is also conducted to monitor and evaluate the performance of the dispersed seedlings and the level of capability enhancement of the trained farmers.



Proper Management of Vegetable Garden: "Matalinong Pamamaraan ng Pag-gugulayan: Pinagsamang Lakas ng mga Mag-aaral at Magulang sa Paaralan"

November 17, 2022

The College of Industrial Technology of BatStateU Alangilan in partnership with College of Agriculture and Forestry of BatStateU Lobo Campus conducted training for the proper management of vegetable gardens as well as providing assistance to students and parents regarding the proper way of planting vegetables. Gulayan sa Paaralan is a project in public schools that teaches students the value of planting vegetables and gives them the satisfaction of harvesting their own produce. Due to the pandemic, the project was put on hold as students and teachers were not able to attend school. Expert training in Agriculture was provided for the successful restart of the vegetable gardens.

**SDG 13: Climate Action***Take urgent action to combat climate change and its impacts.***692 CO₂****by 2030****2****13**campus CO₂ emissions

commitment to carbon neutral campus



PPAs relative to disaster risk reduction management



Research on climate action

Highlights

by 2030 our campus will be carbon neutral

The University is devoted to ensuring that we have a sustainable organization that will continue because it understands that we cannot sacrifice the future in order to pay for the present. We will continue to develop a robust and sustainable university operation with top-notch infrastructure and a safe environment.

**3rd**

quarter National Simultaneous Earthquake Drill

Ensuring the safety of all students, faculty, and staff, BatStateU - The NEU Alangilan and its extension campuses participated in the conduct of the 3rd Quarter National Simultaneous Earthquake Drill led by the National Risk Reduction and Management Council, September 8. Performing the 'duck-cover-hold' technique, all individuals present in the campus were instructed to vacate their respective buildings straight to the campus' designated evacuation area.

**692**

tonnes of CO2 for the whole year

To offset the carbon emissions, which total **692** metric tons of CO₂, Alangilan and its extension campuses must plant **31,741** trees. The university is raising awareness among stakeholders about the environmental impact of energy use in addition to sequestering GHG emissions as a way to influence behavioral change to utilize the energy resources.





COMBATING CLIMATE CHANGE



Re-bagging Activity of Seedlings

September 23, 2022

Partnering the DENR Region IV-A with BatStateU Alangilan and Pablo Borbon Campuses' EMU Engineering Departments, re-bagging activity of seedlings was conducted. This activity generally aims to conduct activities focusing on the Environment and Natural Resources Conservation, Protection and Rehabilitation Program.

Specifically, this activity aims to provide awareness to the public the importance of environmental protection and preservation; help in the re-bagging/re-planting activity; create linkages/partnerships with the Government Regulatory Office (DENR) in the conduct of different environmental related activities and involve the participation of volunteers from different age groups, genders, and organizations.



Tree Mulching and Growing Activity

April 29, 2022

With the joined forces of BatStateU Alangilan and Pablo Borbon Environmental Management Unit together with College of Engineering, Architecture and Fine Arts and partner agencies, Tree Mulching and Growing Activity was successfully implemented in the municipality of San Jose, Brgy. Tugtug San Jose Batangas.

This activity generally aims to conduct activities focusing on the Environment and Natural Resources Conservation, Protection, and Rehabilitation Program. Specifically, this activity aims to provide awareness to the public about the importance of environmental protection and preservation, help in the growth of planted trees through weed removal and mulching activities, and involve the participation of volunteers from different age groups, genders, and organizations.



Equipping the Next Generation Leaders for Climate Change Adaptation and Sustainable Development

December 19, 2022

BatStateU Balayan Red Spartan Community conducted a webinar on Environmental Issues and DRRM/CCA: Equipping the Next Generation Leaders for Climate Change Adaptation and Sustainable Development. This is implemented through the partnerships of the College of Teacher Education, the College of Informatics and Computing Sciences, and Extension Services with EMU Alangilan and ACTION Center Central.

This activity provided our young Red Spartan leaders with awareness on how to deal with Climate change and become vital contributors to achieving sustainable development. Also to understand the sources of environmental issues and concerns in the country and how they contribute to Climate Change.

Technology Transfer: iSTORM: FLOOD AND STORM SURGE MONITORING DEVICE

October 17, 2022

The main objective of the project was to design and implement a flood and storm surge monitoring device intended to have a warning system for the residents of Sta. Rita Aplaya. The researchers were able to use different sensors, such as the ultrasonic sensor, barometric pressure sensor, and wind speed sensor. The ultrasonic sensor captures the flood's water level brought on by the storm surge. The barometric pressure sensor, which is for the atmospheric pressure and temperature, and the wind speed sensor, which is for the wind speed data, are utilized to verify that there are changes in the weather that could lead to a storm surge in the area.



**SDG 14: Life Below Water***Conserve and sustainably use the oceans, seas and marine resources for sustainable development.***12**

programs with courses related to Life Below Water

5

events for aquatic ecosystems

1

PPAs related to life below water

13

Research on life below water

Highlights

12**programs with courses related to life below water**

In BatStateU Alangilan Campus, as per SDG streamlining, all Engineering programs have courses related on SDG 14. Most commonly is the ENGG 413 Environmental Science and Engineering.

**1****coastal clean up initiated**

In support to the goal of engaging people in removing trash in coastal areas and raising awareness on the extent of marine debris problem, student leaders and volunteers from BatStateU The NEU - Alangilan participated in the 2022 International Coastal Clean Up Day in Anilao, Mabini, Batangas, September 17, 2022.

**4****Inspections and Samples Collection initiated through VIP CORALS**

Biodiversity assessment and sample collection methods were applied by the interns with assistance of VIP CORALS RAs. Then after inspected the progress of the construction of VIP CORALS-Lobo marine station. Also, methods discussed with the interns were applied during the sample collection in Lobo, Batangas.





SEA'S THE OPPORTUNITY

NEWS

Save blue, Project RGB launched Student leaders, volunteers engage in 2022 International Coastal Clean Up Day



Project Blue: Coastal Clean Up at Mabini, Batangas

September 17, 2022

Save blue, Project RGB launched Student leaders, volunteers engage in 2022 International Coastal Clean Up Day. In support to the goal of engaging people in removing trash in coastal areas and raising awareness on the extent of marine debris problem, student leaders and volunteers from BatStateU The NEU - Alangilan participated in the 2022 International Coastal Clean Up Day in Anilao, Mabini, Batangas, September 17. In partnership with National Training Service Program - Alangilan, Council of Organization Presidents (COP), and the local Mabini Tourism Office, the Supreme Student Council Alangilan led the activity as part of their Project RGB, spearheaded by the project heads Kathleen May Garvida, Committee Chairperson for Extension Services and Jonathan Fajarda, Committee Chairperson for Environmental Protection. D

escribed as a way to bring “cleanliness and purity” to coastal areas around the world, the participants removed and collected litters and debris along the shoreline in Anilao, Batangas. Along with the participants from the university, the activity was also participated by local government units and organizations from Mabini, Batangas. Before proceeding to the activity, Hon. Mayor Atty. Nilo M. Villanueva welcomed the participants and expressed his gratitude on their efforts and participation to the coastal clean-up. Moreover, a message from the Department of Environment and Natural Resources (DENR) was also relayed through Allan Willard Estelluire. Participants from the Supreme Student Council and Council of Organization Presidents were facilitated by Mr. Jefferson Cañada, Head - Office of Student Organizations.

On the other hand, NSTP - CWTS students were supervised by the NTSP Alangilan Head, Mr. Raymond Kit Rodriguez along with faculty members Ms. Rhona Jane C. Colot, Ms. Heaven Jane R. Macalalad, Mr. Joey U. Andal, and Ms. Vince Sharmaine A. Fernandez. After the program, the participants were divided into groups and were designated to different areas within the shoreline; sacks of garbages were collected and gathered all throughout the clean-up.

**SDG 15: Life on Land**

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and biodiversity loss.

651

total number of trees in the campus

8,260

total number of plants in the campus

34

total number of drought resistant plant and trees

61

total number of drought tolerant plant and trees

29

total number of endangered flora in the campus

15

Research on land ecosystems

Highlights

123 kinds of trees and plants in the campus

On the Alangilan Campus, there are 123 different species of trees and plants, according to the Environmental Management Unit's statistics. The campus does have eight thousand two hundred sixty (8,260) plants and six hundred fifty-one (651) trees.



50% drought tolerant plant and trees

As per statistics from Alangilan Campus Environmental Management Unit, only fifty percent of the species of plants and trees that are sowed in the campus has the ability to maintain its biomass production during arid or drought conditions. Some of these are acacia, almond, banana tree, burmese rosewood, dwarf umbrella, firespike, lemon lime philodendron, sulfur cosmos and more others.





MANAGING LAND ECOSYSTEMS



Tree Mulching and Growing Activity

June 25, 2022

With the joint forces of BatStateU Alangilan and Pablo Borbon Environmental Management Unit, together with the College of Engineering, Architecture, and Fine Arts and partner agencies, Tree Mulching and Growing activities were successfully implemented in the municipality of Balayan Brgy. Sambat Balayan Batangas.

This activity generally aims to conduct activities focusing on the Environment and Natural Resources Conservation, Protection, and Rehabilitation Program. Specifically, this activity aims to provide awareness to the public about the importance of environmental protection and preservation, help in the growth of planted trees through weed removal and mulching activities, and involve the participation of volunteers from different age groups, genders, and organizations.

Fifty planted trees were mulched in Tugtug Elementary School's lot by volunteers from BatStateU, HAPI Green Movement Ambassadors, MAENRO San Jose, Barangay y Tugtug Officials, and volunteers. Before the proper mulching, a short program was conducted wherein the partners of the activity gave their short message, and an orientation on the proper mulching was given by a HAPI Green Movement Ambassador. Afterwards, the volunteers proceeded to the mulching proper, wherein the compost and the sawdust were mixed evenly and applied to the surrounding areas of every planted tree. Seven tree seedlings were planted as well and had been mulched. This would be the second year of mulching trees with San Jose, Batangas, strengthening the relationship with their municipality. Thus, this could potentially be an annual activity.

Plant Tree. It is for free!

January- December 2022

Batangas State University sought for and received an Environmental Compliance Certificate (ECC), ECC-R4A-0911-0099, as an organization dedicated to ensuring that it is environmentally sustainable. To comply, an Environmental Management Unit was established. Additionally, EMU was created to guarantee that environmental sustainability is applied across all campuses of Batangas State



University. It is in charge of safeguarding the university's environmental records, compliance certificates, and licenses in addition to putting into practice the DENR's regulations as specified in the ECC.

The fundamental objective of EMU is to carry out initiatives and activities that will uphold an environmentally friendly and sustainable campus. According to data, there are 123 different species of trees and plants on campus, of which 49.59% are drought-tolerant and 27.64% are drought-resistant. A total of six hundred fifty-one (651) trees, including acacia, kabalyero, bamboo, mahogany, as well as fruit-bearing trees like calamansi, langka, papaya, malunggay, mango tree, cocoa, coffee tree, avocado, and banana tree, have been planted inside the campus. Eight thousand two hundred sixty (8,260) plants, including brush cherry, cathedral bells, corn plant, firespike, gabi, lemon grass, snake plant, sili, welcome plant, and many more, are sowed.

On campus, there are many different types of trees and plants, but there are also twenty-nine (29) species that are at risk. But we can aid in the preservation of endangered species by encouraging the preservation of the ecosystem and unmanaged lands. The first phases to making sure there is a real impact are education and awareness. Maintaining effective protection of endangered plants can also be achieved by keeping up with scientific advancements and conservation methods.

CAMPUS BIODIVERSITY

PLANTS AND TREES INVENTORY

NAME OF TREE	DROUGHT RESISTANT	NAME OF PLANT	DROUGHT RESISTANT
Acacia	No	Arrowhead plant	No
Almond	No	Bamboo cycad	Yes
Ashoka live plant	No	Beach spider lily	No
Avocado	No	Bird's nest anthurium	No
Banana tree	No	Bird's nest fern	No
Blindness	No	Bitter ginger	No
Bread fruit	No	Blushing bromeliad	No
Bhuddhist pine	No	Broadleaf Lady palm	No
Burmese rosewood	No	Brush cherry	No
Calamansi	No	Cape Jasmine	No
Cambodian Dragon tree	No	Caricature plant	No
Canary island date palm	No	Cathedral Bells	Yes
Castor oil plant	No	Chinese hibiscus	Yes
Cat palm	No	Chinese violet	No
Ceiba tree	Yes	Coleus	No
Chinaberry	No	Copper leaf	No
Clustering fishtail palm	No	Corn plant	No
Cocoa	No	Crepe ginger	No
Coffee Tree	No	Desert rose	No
Common bamboo	No	Devil's backbone	No
Cuban royal palm	No	Devil's ivy	No
Cypress pine tree	Yes	Dischidia oiantha	No
Date palm	No	Dumb cane	No
Dwarf umbrella	No	Ebony	No
False ashoka	No	Firespike	No
Foxtail palm	No	Flame of the woods or jungle geranium	No
Golden dewdrops	No	Gabi	Yes
Guyabano	No	Garden balsam	No
Hardy banana	No	Gardenia	No
Kabalyero	No	Giant Cabuya	No
Kakawate	Yes	Giant taro	Yes
Langka	No	Geoppertia louisae	No
Laping budak	No	Gold dust dracaena	Yes
Lucky bamboo	Yes	Green aralia	No
Mahogany	Yes	Hop bush	No
Malabar plum	Yes	Japanese azalea	No

CAMPUS BIODIVERSITY

PLANTS AND TREES INVENTORY

NAME OF TREE	DROUGHT RESISTANT	NAME OF PLANT	DROUGHT RESISTANT
Malunggay	Yes	Japanese forest grass	No
Mango tree	Yes	Joseph's coat	No
Norfolk island palm	Yes	Lemon grass or stapf	No
Pacific beauty palm	No	Lemon lime philodendron	Yes
Papaya	No	Lily turf	Yes
Peacock tree	Yes	Luya	Yes
Rainbow tree	No	Miagos bush	Yes
Rambai	Yes	Moses in the cradle	Yes
Sea grape tree	No	Mother-in-law's tongue	Yes
Senegal mahogany	Yes	Narrow sword fern	Yes
Solitaire palm	No	Orange jasmine	No
Syzygium	No	Paper flower	Yes
Tropical almond	No	Parrot's beak	Yes
Tuba	Yes	Pin wheel flower	Yes
Wattles	Yes	Pink dalmatian	Yes
Weeping fig tree	No	Pinwheel flower	Yes
Yellow oleander	No	Shining bird of paradise	No
		Sili	Yes
		Silver squill	No
		Snake plant	No
		Song india	No
		Spider plant	No
		Spotted evergreen	No
		Striped barbados lily	No
		Sulfur cosmos	No
		Texas ranger	Yes
		Ti plant	No
		Trail bromeliad	No
		Variegated flax lily	No
		Variegated matchstick bromeliad	No
		Walking iris	No
		Water Canna	No
		Welcome plant	Yes
		White turmeric	No
		Yellow Copper leaf	No



SDG 16: Peace, Justice and Strong Institutions

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable, and inclusive institutions at all levels.

52

8

4

10



total number of
recognized student
organizations



total number of
students provided
with legal assistance



PPAs related to
peace, justice and
strong institution



Research on
peace and justice

Highlights

52

recognized student organizations

The primary body in charge of all on-campus events is BatStateU Alangilan's Supreme Student Council. On university, there are five other general organizations, 22 under CoE, 4 under CAFAD, 5 under CICS, and 5 under CIT. The nine groups are affiliated with extension campuses.



5

Seals of Leadership Excellence nabbed

With the achievement of the Sword of Student Rights and Welfare, Helm of Student Development, Armor of Public Relations, Branding, and Marketing, Cape of Patriotism, Culture, and Arts, and Spear of External Linkages, Community Relations, and Extension Services, Supreme Student Council Alangilan received its first Silver Seal of Good Governance at the 2nd Spartan Awards: Synergistic Conquerors of the Uncertainties presented by the University Student Council on July 1 at the Gov. Feliciano "Sanoy" Leviste Memorial Gymnasium, Pablo Borbon Campus, exemplifying a year of service, honor, and excellence.





PROMOTING PEACE AND JUSTICE



Antagonize HAZING!

March 24, 2022

Tending to preserve the peace and harmony in the university, the Office of the Student Discipline Alangilan Campus, together with the SSC Alangilan and Office of Student Organizations, conducted the "Anti-Hazing Webinar: Creating a Hazing Free Environment" via Zoom and Facebook Live last March 24 from 9:00 AM to 11:00 AM.

The facilitators invited Atty. Harjade S. Dammang LL.M. who is a Professor of Law as the guest speaker. The Anti-Hazing Act of 2018's passage represents an important step in combating risky and violent behaviors that have cost the lives of numerous young people. In the webinar, it is explained what organizations and school administrations must do to stop hazing and make sure those who engage in it face consequences. Additionally, the webinar gave participants a chance to ask questions, and the guest speaker, Atty. Dammang provided all of their answers.



Citizens Charter + SEE-leap + Malayang Hayag

August - December, 2022

The CoE Student Council of Alangilan Campus Citizen's Charter made available to the public the organization's documents as well as other crucial details that its stakeholders should be aware of. In keeping with this, the stakeholders were also given access to the organization's transparency report detailing its expenditures and liquidation throughout the course of the specified period. CoE students have the opportunity to inquire about the financial results and see the organization's expansion in order to draw in new projects. Last but not least, Malayang Hayag aims to make fair use of students' voices by uniting them to express their views, opinions, and positions on many social issues that relate to our rights as students, citizens, and potential members of this nation's professional society. Students and young people engaged in active discussion about the issues they confront. Additionally, it educated and informed students about current events and social issues.



Motivated and Driven Student Officers

AY 2022-2023

There are 52 recognized student organizations for the Alangilan Campus and its extensions, according to BatStateU Alangilan Campus' Student Organization Office. Six of the total number of student organizations are for the whole campus sake, led by Alangilan's Supreme Student Council. Aside from it, there are organizations per colleges composed of 22 from the College of Engineering, 4 from the College of Architecture, Fine Arts, and Design, 5 from the College of Informatics and Computing Sciences, and 5 from the College of Industrial Technology. The remaining nine organizations, with three apiece, are from the extension campuses.

This is done to foster relationships by bringing people together based on their shared interests. The goal of student organization recognition is to forge relationships, advance knowledge, and investigate many aspects of higher education.



"Let us be Aware, have Knowledge and be Secured" (AKS)

September 23-23, 2022

The College of Industrial Technology, together with the Extension Service Office of BatStateU Alangilan Campus, conducted a webinar discussion on topics of cybercrime and cybercrime laws through Google Meet and Facebook Livestream held on Friday and Saturday at 9:00 a.m. with the resource speaker, Atty. Earvene Jared S. Cunanan from the Office of Development and External Affairs. This webinar provided awareness, additional knowledge, and security purposes regarding cybercrimes and cybercrime laws to the junior and senior high school students of NAVERA and SSSVL.



SDG 17: Partnerships for the Goals

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development.

26



local partnerships
with MOA/MOU

29



international
partnerships with
MOA/MOU

11



engineering programs
that address SDGs and
sustainability

36



Research into
partnership for
the goals

Highlights

2022

World Engineering Day for Sustainable Development (WED)

By focusing on the UN 2030 Sustainable Development Goals, this activity is an official international day that UNESCO declared in 2019 and provides a chance to honor engineering and the contributions of engineers around the world to a better, more sustainable future. The theme for this year's WED at BatStateU is "**Engineering Today for a Sustainable Tomorrow**", which combines three components that make up the framework for responsible engineering education. Leaders, innovators, and champions from around the world participated at the three-day conference that focused on innovation, the SDGs, and future thinking. In honor of WED, the program also features an exhibition of projects run by university engineering students.



WORLD ENGINEERING DAY

26 Local Partnerships

According to statistics, there are 13 local collaborations with the College of Engineering, 7 agreements with CIT, 2 partnerships with CEAFA, and 4 with CICS in BatStateU Alangilan Campus.

29 International Partnerships

The University strengthened partnership internationally to prepare the students to have the competencies required in the workplace, and the understanding on how cross-cultural diversity affects the world. Also, the University had already entered into partnership agreements for possible collaborative activities on academics and research- all geared towards the attainment of the 17 SDGs.





PROMOTING SDGS



World Engineering Day for Sustainable Development (WED) Theme: "Build Back Wiser: Engineering the Future"

March 4, 7 & 8, 2022

Opening the WED 2022 celebration, University President Dr. Tirso Ronquillo welcomed the participants and set forth BatStateU's efforts in reimagining engineering education through CIEE, the University's official arm in advancing engineering education.

On the first day of the commemoration of WED, CIEE invited experts from around the world to participate as resource speakers. Being the Chair of the Committee for SDGs, Innovations, and Futures Thinking has inspired Hon. Sen. Pia S. Cayetano's speech focused mostly on monitoring SDG progress, planning for potential futures, and shifting mindsets to embrace futures thinking as policy reform. The World Federation of Engineering Organizations President, Prof. Dr. Gong Ke, discussed the progress made in adapting to the changes brought on by the pandemic in his keynote speech. Additionally, Dr. Diosdado Banatao, a world-class Filipino innovator, entrepreneur, philanthropist, and founder of PhilDev, emphasized the need for future engineering leaders to learn cross-disciplinary collaboration, iterate designs quickly, manufacture sustainably, and consider international market demands. Prof. De Hsing-Lung Lien discussed the need for integration of SDGs into university curriculum, concrete steps at faculty and management levels, and methods used by other leading institutions. Prof. Sherman Cruz emphasized technology foresight, engineering, and game-changing inventions in his introduction to strategic and futures thinking.

CIEE invites local speakers for the second day of the WED Celebration. Associate Professor (VPRDES himself): Engr. Albertson Amante opened the forum and reminded the participants to continue the conversations in engineering, development, and SDG attainment in the relevant fields of engineering and different HEIs in the Philippines. Local resource speakers are Dr. Ronald L. Orales, VP for Planning, Research, and Extension at Samar State University; Dr. Leonell P. Lijauco, Dean of CoE and Technology at Tarlac Agricultural University; Dr. Rowell M. Hernandez, Department Chair of BS CS at BatStateU Alangilan; Dr. Christina Amor M. Rosales, Program Chair for BS Transportation Engineering at BatStateU Alangilan; and Dr. Jihan H. Adil, Faculty of the Department of Environmental Engineering at Western Mindanao State University.

The 8th day of March 2022 marked the third and last day of BatStateU's celebration of WED. In accordance with this, WFEO announced the launch of the WED Hackathon, which encourages university students worldwide to design and simulate engineering projects that aim to solve real-world problems and advance the UN's SDGs. From 125 teams from 23 participating countries, **WONDERPETS**—an all-female team from **BSU**, as Dr. Kanga defined it—won the 2022 **WED Hackathon**. Having been the only Filipino finalist, the team makes not only the university proud but all of the Philippines, especially the engineering community. There's arguably no better way of ending this university's 3-day event than this.



PROMOTING SDGS



The Annual Student Conference for Engineering and Technology 2022

Theme: Promoting a Sustainable Culture of Research and Collaboration

June 9 & 10, 2022

The Center for Innovation in Engineering Education (CIEE) holds the first ASCENT'22 via Zoom webinar since it is pandemic. It is a two-day event that was conceptualized to become a common platform for sharing academic and research output from students of all programs offered by BatStateU Alangilan. It is a success of the conference that the 88 entries submitted and presentations made presented all undergraduate degrees, with the inclusion of select graduate and post-graduate titles.

ASCENT'22 opened on June 9 with welcome remarks from the University President, Dr. Tirso A. Ronquillo, and was followed by the Day 1 plenary session lecture-discussion "Engineering a Sustainable Future," delivered by the guest speaker, Dr. Diocel Harold M. Aquino, Associate Professor and Deputy Director for Academic Programs at the Institute of Civil Engineering of the University of the Philippines Diliman and a fellow of the UP Resilience Institute. The first set of sessions (A and B) ensued as scheduled thereafter until the afternoon.

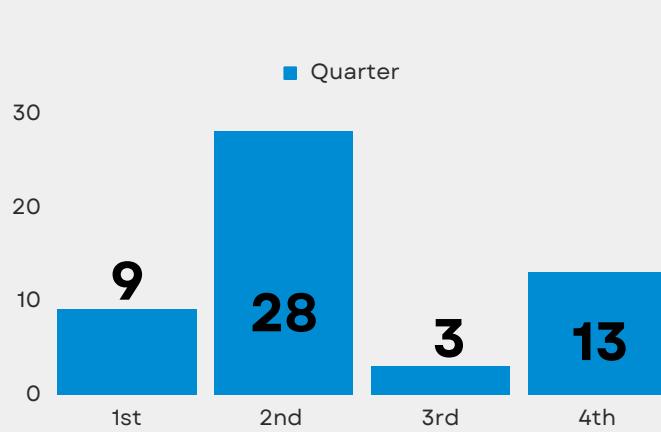
On June 10, following the Day 1 synthesis and Day 2 opening message, Team WONDERPETS Ghia Luwalhati, Reaner Jacqueline Bool, and Nicole Elizabeth Tan presented in the Day 2 plenary 3 session 2 "Engineering towards SDG Attainment," where they shared with the audience their experience as student researchers. Team WONDERPETS members come from BS ChE, who championed the 1st WED 2022 Hackathon, where the CIEE was instrumental in connecting the World Federation of Engineering Organizations (WFEO) and facilitating the submission of entries in March 2022. The second set of parallel sessions (C and D) ensued as scheduled thereafter until the afternoon.

Entries were programmed to fall into one of the four session sets A, B, C, and D, under one of the three parallel thematic sessions P1, P2, and P3, totaling 12 sessions, each managed by a session chair and moderator. Twelve awards were given to the best presenters per session and per category.

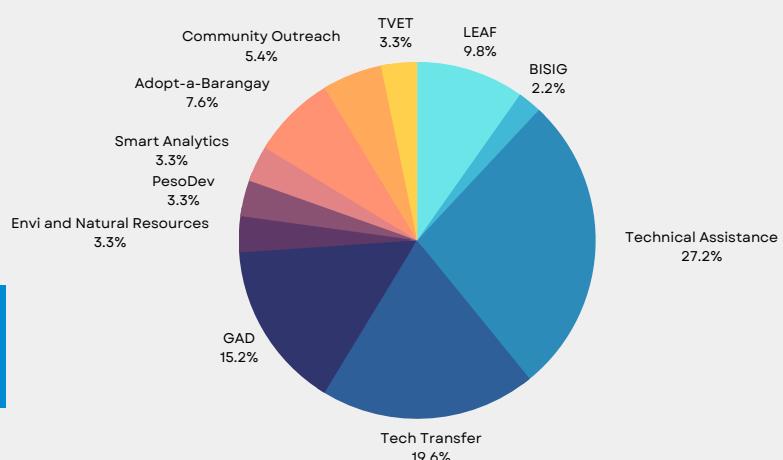
BatStateU and the Community

In addition to sharing knowledge in the fields of science, technology, education, management, and research with other public or private agencies or groups that require it, BatStateU is dedicated to providing extension services to depressed and underserved communities. Twelve separate agendas make up Project Program Activities, each of which is intended to promote a particular SDG.

With a total of 28 activities by various colleges at the university in 2022, the second quarter presented the majority of PPAs, while the third quarter have the least number of PPAs conducted. When it comes to the extension agenda, Technical Assistance and Advisory services account for the majority of the activities completed, followed by Technology Transfer and adoption or use. BatStateU Inclusive Social Innovation for Regional Growth's (BISIG) have the least-performed initiatives followed by PesoDev, TVET, Smart Analytics, and Environment and Natural Resources Conservation.



The graph shows the number of implemented PPAs per quarter.



The graph shows the proportion of PPAs per extension agenda.

Extension Services

53 PPAs

In 2022, BatStateU Extension Services facilitated a total of fifty-three (53) project program activities and addressed eleven out of twelve agenda items.



Extension Services
Agenda Addressed

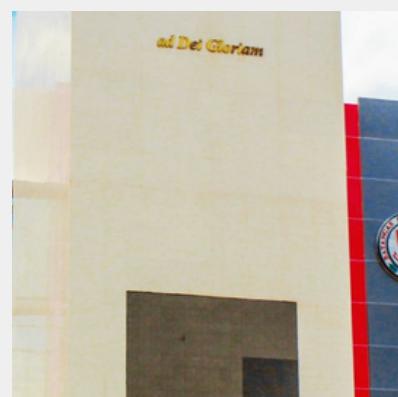
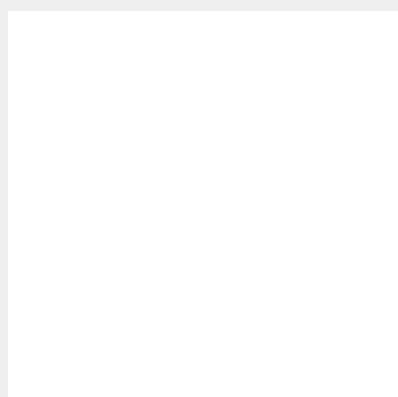
11/12

Ways Forward

In order to support institutional sustainability, the University has been working on a variety of strategic initiatives, programs, and projects since 2014. These programs and projects aim to improve community engagement, innovation, and collaboration among BatStateU individuals. We can attain the highest level of sustainability on our campuses and in our routine operations linked to academics and research, staff and student involvement, operations, and community engagement with the aid of the sustainability plan.

Through the conduct of high-impact and sustainability-focused research, the objective is to lead innovation. The university can ensure sound resource management to effectively and efficiently carry out its mandates by increasing research productivity that strives to achieve the SDGs as well as participation in high impact studies and innovations that are sustainability focused, enhancing the existing and development of new sustainability research initiatives, and growing the number of sustainability-related start-up enterprises launched and start-up competitions. Also, providing the access to nutritious food and safe drinking water; protecting the environment from harm caused by human activity; and planning smart infrastructure to allow for effective population management. Responsible use of information technology to support sustainable development.





Sustainable Development Office Alangilan Campus

Engr. JOHN KEVIN M. DE CASTRO
Head, Sustainable Development Office

Ms. JELYN D. PAGLINAWAN
Administrative Aide VI

📞 425-0143 loc. 2005

📍 Golden Country Homes, Brgy. Alangilan, Batangas City
Batangas, Philippines, 4200

🌐 www.batstate-u.edu.ph