



LIVELIHOOD TRAINING WORKSHOP ON TILANGGIT

Dr. Azcuna and Dr. Corral, together with the beneficiaries spearheaded the livelihood training workshop on processing tilapia into Tilanggit and smoked tilapia, opening additional income generated from tilapia.

The workshop was composed of beneficiaries from the project, BatStateU Fisheries and Criminology students, Representatives from the Municipal Agricultural Office of Nasugbu, Bureau of Jail Management and Penology (BJMP), and Philippine National Police (PNP).

INSPIRE - ALWAN CITIZEN SCIENCE COMMUNITY REEF ASSESSMENT TRAINING

Dr. Azcuna, Dr. Corral, and Mr. Velasquez orchestrated a community reef assessment training in Lobo, Batangas along with the SEA Institute - Verde Island Passage and DLSU Shore team.



VIP CORALS OPEN HOUSE

In part of the 2022 Innovation Month Celebration last September 21-23, 2022, VIP CORALS welcomed participants on a three-day open house. It was attended by students, professors, and other university officials.

Helmed by Lobo and Nasugbu Center Heads, Dr. Saco and Dr. Azcuna, respectively, the center was able to showcase their ongoing and completed projects, seaweed cultures, laboratory setups, and interactive sessions.



VIP CORALS JOINS UP-MSI SCIENTIFIC RESEARCH CRUISE

VIP CORALS was invited by the UP Marine Science Institute (UP-MSI) to be a part of their project "Upgrading Capacity, Infrastructure, and Assets (Upgrade CIA)." The marine scientific research cruise was attended by VIP CORALS team Dr. Azcuna, Ms. Rula, and Mr. Velasquez. The expedition aimed to document the macro-scale diversity trend of marine organisms within the Verde Island Passage and to train researchers from other HEIs in line with the establishment of the National Academic Research Fleet (NARFleet)



BANGON BATANGAS

| LIVELIHOOD AND OTHER ENTREPRENEURSHIP RELATED TO AGRI-FISHERIES (LEAF)

BatStateU continues to lend a hand to the internally displaced populations (IDPs) affected by the Taal volcano eruption through the Bangon Batangas project, a science-based intervention program of the University that aims to rehabilitate IDPs affected by the volcano eruption in 2020.



The project also includes training on proper packaging and labeling for smoked fish, facilitated by the faculty of the Food Engineering Program of BatStateU. Additionally, BatStateU conducted training on business marketing for beneficiaries of the implemented livelihood projects, which included Smoke Fish, Baskagan, Dishwashing Liquid, Ube Crops, and Eco Bricks Making.

The training aimed to boost revenue and promote local goods in the affected communities, and beneficiaries were taught various approaches and strategies for marketing their finished goods.



The project is funded by the Department of Science and Technology-Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (DOST-PCAARRD).

- One of the interventions implemented is the Basic Tinapa Making, which involved training affected communities on how to make smoked fish using native fishes of Taal Lake such as Bangus and Tilapia.





The FIC is an innovation hub for product/process development, offering marketing strategies, food analysis, safety and quality training. It supports MSMEs in Batangas Province, aiming to transform communities' livelihoods by enabling entrepreneurs to turn their ideas into reality.

TIMUS 2.0

"Timus" - a Batangueño word that means "to taste"



Food Innovation Center (FIC) together with the Knowledge and Technology Transfer Management (KTTM) recently hosted an event called Technology & Innovation for MSME's Upscaling & Sustainability 2.0 (TIMUS 2.0) with the theme "Promoting ProlifIC Tech-Innovation for a Healthier Tomorrow". As part of the celebration of the University's Innovation Month 2022, it showcased the university's registered IP technologies and products from MSMEs.

The event also showcased the Pande-MEAL Plan, Food Innovation Center's equipment and services, and a cooking competition participated by Food Engineering students. The objective of the activities was to promote BatStateU technologies, highlight Solar-Powered Food Dehydrator products, and promote food hygiene and safety while showcasing students' product innovation capabilities.



FIC AND DOST BATANGAS BOOST FOOD SAFETY FOR BATANGAS EGG PRODUCERS AND NOVOAGRI



Batangas Egg Producers Multi-Purpose Cooperative (BEPMPC), formerly known as BEPCO, and NovoAgri, Inc. have undergone the Hazard Analysis Critical Control Points (HACCP) training conducted by the Batangas State University's Food Innovation Center (FIC) and the Department of Science and Technology (DOST) Batangas. The training aimed to expand the knowledge of the industries in food safety and capacitate their production workers. BEPMPC received the training last March 28, 2022, while NovoAgri, Inc. underwent the training on December 12, 2022.

VENTURING INNOVATIVE LIVELIHOOD PROGRAM THROUGH EFFICIENT MEAT PROCESSING

BatStateU FIC and DOST Batangas collaborated on an extension project called "Venturing Innovative Livelihood Program through EffiCient Meat Processing." The project aimed to provide training for various communities, including Malitlit Jaybanga Meatshop Sustainable Livelihood program Association, Samahan ng Batangueña, and Recovery Persons Who Use Drugs.

Three training sessions were successfully held in different areas of Batangas province, and the beneficiaries were monitored by DOST Batangas. The project aimed to help communities double their income during the pandemic.





**MANUFACTURING RESEARCH CENTER
LIKHA FABLAB: LABSPACE FOR INNOVATION,
KNOWLEDGE-HONING, AND APPLICATION**

LIKHA FabLab aims to provide access to digital fabrication machineries and technical expertise to aid Micro, Small, Medium Enterprise (MSMEs), in prototype, product development. It operates as a shared service facility with partnership with DTI.

**PHILIPPINE FAB LAB NETWORK COLLABORATES WITH
ACADEME AND INDUSTRY PARTNERS TO HOST 3D
PRINTING TRAINING FOR HEAD AND NECK SURGEONS**



The Philippine FAB LAB Network recently conducted a successful 3-day workshop called FAB Health, aimed at training Otorhinolaryngologists from various medical institutions across the country. The workshop, hosted by FAB LABS Philippines in partnership with various institutions from the academe and industry, BatStateU through LIKHA

Fablab being one, aimed to teach surgeons how to use 3D printing technology to aid in surgeries. The workshop grew from a small training program in 2021 to a nationwide event attended by over 60 fellows and residents from the Philippine Society of Otolaryngology-Head and Neck Surgery (PSO-HNS).



The doctors learned how to extract 3D images from CT scan files, manipulate them, and then use 3D printing technology to bring them into reality. This event highlights the importance of collaboration between FAB LABs and medical institutions in developing innovative solutions for the healthcare industry.

**HULMANUFACTURE:
3D PRINTING TRAINING**

The LIKHA FabLab conducted its first Hybrid Workshop entitled "HULManufacture" on September 14, organized by the intern students of BS Mechatronics Engineering Team Alpha and LIKHA FabLab. The event was aired live via Facebook and was also attended physically by selected students of BatStateU Integrated High School and the faculty of STEM Strand.



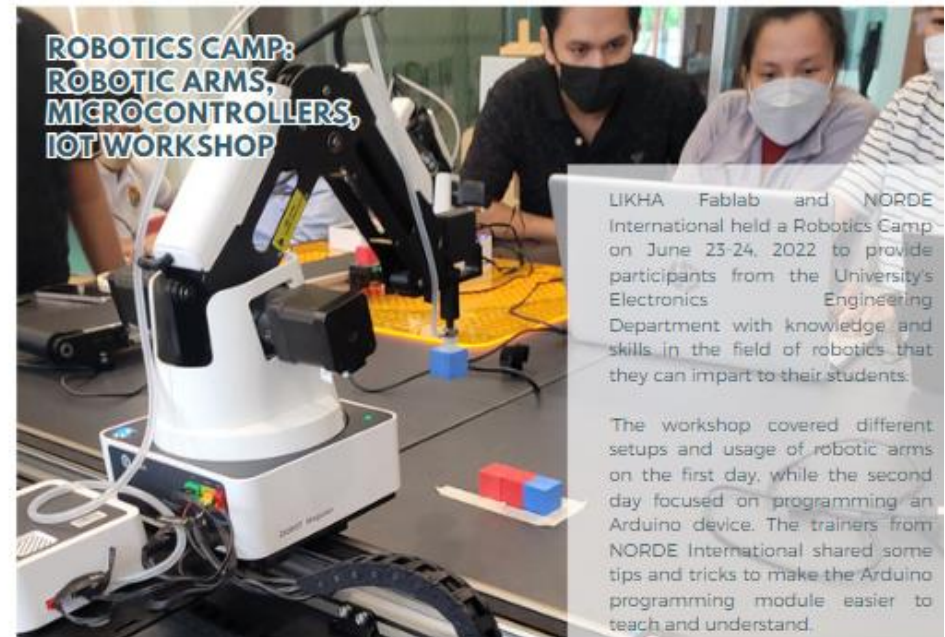
The workshop aimed to teach the participants the basics of 3D printing using TinkerCad and Ultimaker, and the importance of basic fundamentals for designing and printing. The participants had hands-on experience designing, saving, and operating the 3D Printer.



**DECNCRAFT: TRAINING
ON CNC MACHINING**

On September 21, LIKHA Fablab held an event called "DeCNCraft," which introduced CNC machining to participants from the College of Architecture and Fine Arts to increase their knowledge of developing and obtaining part drawings, operations, and tool requirements in CNC.

Participants learned how to use the Aspire software, create basic shapes, make a 2D sketch of stool/chair part, and set up and operate the CNC machine and cut wood pieces/parts.



**ROBOTICS CAMP:
ROBOTIC ARMS,
MICROCONTROLLERS,
IOT WORKSHOP**

LIKHA Fablab and NORDE International held a Robotics Camp on June 23-24, 2022 to provide participants from the University's Electronics Engineering Department with knowledge and skills in the field of robotics that they can impart to their students.

The workshop covered different setups and usage of robotic arms on the first day, while the second day focused on programming an Arduino device. The trainers from NORDE International shared some tips and tricks to make the Arduino programming module easier to teach and understand.



The implementation of the project ATLANTIS, an IoT-based artificial intelligence aquaponic control and monitoring system, is being led by the Digital Transformation Center. This 5-million DOST-S4CP CRADLE-funded project was initiated on May 1, 2022, with the primary goal of designing, developing, and assessing an electronic controller board equipped with IoT and AI capabilities to manage and monitor the greenhouse environment, nutrient solution, and water quality in aquaponics.



As the project progresses, consultations for ATLANTIS are being conducted virtually and face-to-face. In fact, the final design for constructing the greenhouse system was completed face-to-face in Tagaytay, Cavite on August 18, 2022, and student researchers are also actively participating in the ATLANTIS project.

I DTC 2022 WEBINAR SERIES

01
May 18

RESOURCE SPEAKER:
MS. VANESSA HO,
SENIOR ANALYTICS
SPECIALIST, QUANDATICS,
INC.

The webinar focused on big data and data analytics, and how to use the RapidMiner Studio plus AI Hub software.

Be a Data Science Hero with RapidMiner

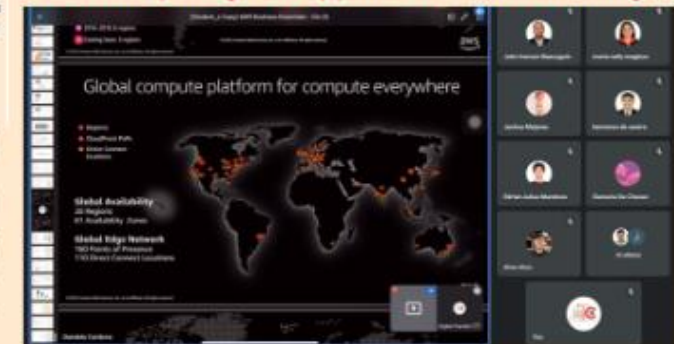


02
Sep 24

RESOURCE SPEAKER:
ENGR. DANDELO CARDONA,
AVP, HEAD OF OPERATION
ARCHITECTURE AND
IMPLEMENTATION SERVICES,
UNION OF THE PHILIPPINES

The webinar aimed to raise awareness among BatStateU college professors, researchers, and students about cloud computing, which delivers computing services over the Internet to provide faster innovation, flexible resources, and economies of scale.

Cloud Computing 101: Opportunities and Challenges



03
Sep 28

RESOURCE SPEAKER:
MR. CHRISTIAN
RIOFLORIDO, PH.D.
STUDENT, CHUNG YUAN
CHRISTIAN UNIVERSITY

The webinar focused on the latest advancements in computer-based technologies that incorporate quantum theory and AI principles to equip participants with the knowledge and skills needed to utilize these technologies in their work, with a focus on providing faster innovation, flexible resources, and economies of scale.

Artificial Intelligence and Quantum Computing

