

RISE

Research and Innovation Stories and Events

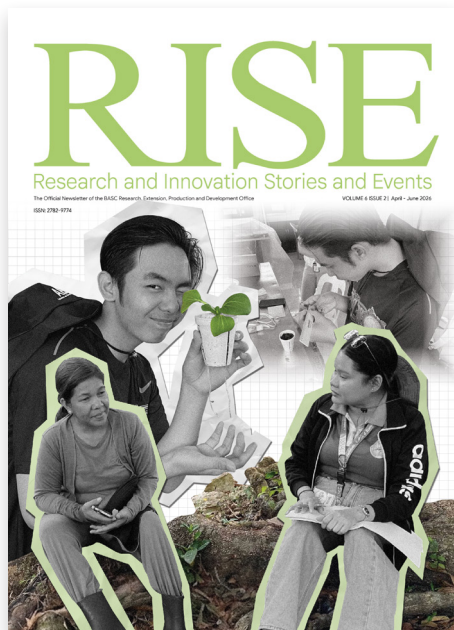
The Official Newsletter of the BASC Research, Extension, Production and Development Office

VOLUME 6 ISSUE 2 | April - June 2026

ISSN: 2782-9774



The **RISE: Research and Innovation Stories and Events** is the official quarterly publication of the Research, Extension, Production and Development Office of Bulacan Agricultural State College. It is published four times a year and features research breakthroughs, innovation initiatives, extension activities, and institutional developments of the College.



ABOUT THE COVER

This issue's cover features the Best Student Researchers of Bulacan Agricultural State College, whose award-winning studies exemplify excellence in innovation and social research. Featured are Mr. Mark Eugene S. Mariñas, recognized in the Experimental Research Category for his machine learning-integrated IoT system for hydroponic salinity prediction, and Ms. Micah San Miguel who presented their paper together with co-researchers Angelica Janine D. De Sotto and Trissian G. Perez, recognized in the Social Research Category for their study on family communication patterns and career pursuits. Their achievements reflect the College's commitment to advancing research that drives technological innovation and societal development.

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f **BASC Research, Extension, Production & Development Office**



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CET and IAS Students Shine in the 2025–2026 Best Student Researcher Search

HARVINE JAY VIOLA

The Research, Extension, Production and Development Office successfully conducted the Search for the Best Student Researcher for Academic Year 2025–2026 on June 8, 2026, through a virtual competition via Zoom.

The annual competition featured twelve (12) research entries under two major categories: Experimental Research and Social Research, providing a platform for students to showcase research initiatives that address contemporary issues and contribute to academic advancement and community development.

In the Experimental Research Category, Mr. Mark Eugene S. Mariñas, a Bachelor of Science in Agricultural and Biosystems Engineering student from the College of Engineering and Technology (CET), emerged as the Best Student Researcher for his study, "Salinity Prediction in Hydroponics System Using Machine Learning-Integrated IoT System." His research demonstrated innovation in smart agriculture by integrating machine learning and Internet of Things (IoT) technologies to enhance hydroponic farming systems.

Seven (7) research studies competed in the Experimental Research Category, representing the Institute of Veterinary Medicine (IVM), College of Agriculture (CA), CET, Institute of Computer Studies (ICS), and DRT Campus. The entries covered diverse fields, including veterinary medicine, animal science, horticulture, agricultural engineering, food technology, information systems, and agroforestry, reflecting the College's commitment to interdisciplinary and applied research.

The category was evaluated by a distinguished panel composed of Engr. Julius L. De Villa, Assistant Professor IV from Central Bicol State University of Agriculture (CBSUA); Ms. Angelli Miranda Llorando, DOST-SEI Career Incentive Program Fellow from the Center for Tropical Mushroom Research and Development, Central Luzon State University



(CLSU); and Mr. Marco Felix Sangco Valdez, DOST-SEI Career Incentive Program Fellow, Top 6 passer of the 2021 Licensure Examination for Agriculturists, and Assistant Professor II at New Era University (NEU).

Meanwhile, the Social Research Category recognized Ms. Micah San Miguel, together with co-researchers Angelica Janine D. De Sotto and Trissian G. Perez, Bachelor of Science in Development Communication students from the Institute of Arts and Sciences, as the Best Student Researchers for their study, "Comparative Analysis of Family Communication Patterns in Farming vs. Non-Farming Households and Their Effect on Career Pursuits." The research examined the influence of family communication dynamics on career aspirations among farming and non-farming households, providing valuable insights into social and developmental communication.

Continued on page 4



Five (5) research studies competed in the Social Research Category, representing the College of Management (CM), Institute of Arts and Sciences (IAS), and College of Education (CED). The presentations explored significant contemporary issues, including agribusiness development, LGBTQIA+ entrepreneurship, post-harvest technology adoption, media consumption, family communication patterns, and artificial intelligence-

assisted educational interventions.

The category was assessed by an esteemed panel consisting of Dr. Jazmin Joy E. Dizon, Department Head of Psychology and Human Services at Tarlac State University (TSU); Dr. Clareziel Digamon Ladrangan, Dean of the College of Tourism, Hospitality, and Hotel Management at Cebu Normal University (CNU); and Dr. Ken G. Calang, Chair of the Department of Global Studies, CLSU.

The Search for the Best Student

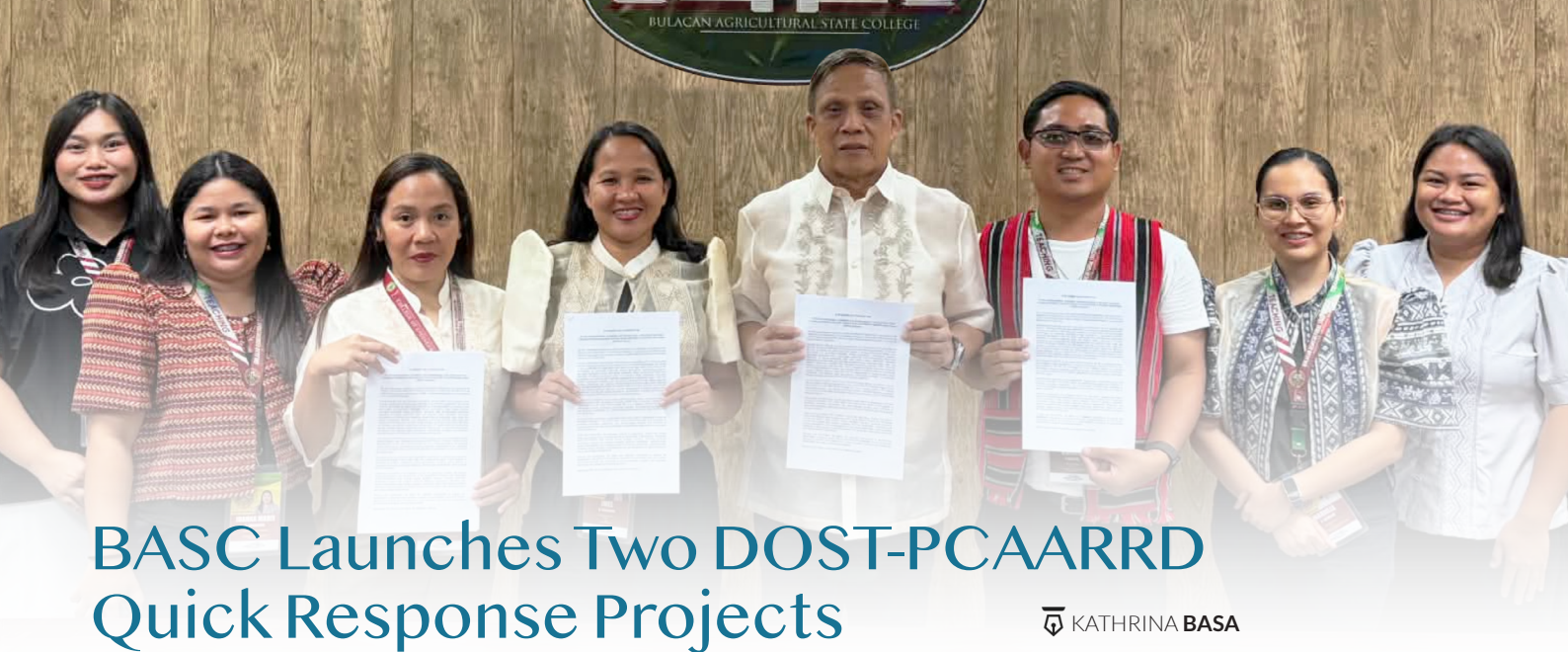
Researcher continues to serve as an avenue for recognizing outstanding student researchers and fostering a strong culture of inquiry, innovation, and evidence-based problem-solving within the College. Through their research endeavors, participating students demonstrated their commitment to generating knowledge that advances academic excellence, addresses societal challenges, and contributes to sustainable development.

Experimental Research Category

Researcher/s	Title
Mr. Mark Eugene S. Mariñas College of Engineering and Technology	Salinity Prediction in Hydroponics System Using Machine Learning-Integrated IoT System
Ms. Erlic Dawn B. Latuja Institute of Veterinary Medicine	In Vitro Analysis of the Antimicrobial Activity of Lactobacillus casei Cell-Free Supernatant Against Escherichia coli in Chicken Cecal Sample
Mr. John Michael N. Dalisay (Paper Presenter), Mr. Christian Miguel S. Maqui, Mr. Marc Luigi P. Reyes, and Ms. Nicole C. Vizconde College of Agriculture	Plant-Based Anthelmintics: Effects of Indian Almond (Terminalia catappa) in Free-Range Chicken Helminths
Ms. Vanessa C. Aduana College of Agriculture	Interactive Effects of Planting Distance and Indigenous Microorganisms Humified-Carabao Manure-Based Bioorganic Fertilizer (IMO-CaraBOF) in the Field Production of Taiwan Chili Pepper
Ms. Imee Correa Institute of Computer Studies	Unified Report Compliance Management System for DILG Office San Ildefonso, Bulacan
Ms. Shammel A. Principe BASC DRT Campus	Comparative Evaluation of Soil Health Indicators Under Agroforestry and Conventional Farming Systems in Doña Remedios Trinidad, Bulacan

Social Research Category

Researcher/s	Title
Ms. Micah San Miguel (Paper Presenter), Ms. Angelica Janine D. De Sotto, and Ms. Trissian G. Perez Institute of Arts and Science	Comparative Analysis of Family Communication Patterns in Farming vs. Non-Farming Households and Their Effect on Career Pursuits
Mr. Mark Angelo E. Idaba (Paper Presenter), Mr. John Derick De Vera, Ms. Rica Joy M. Gregorio, Ms. Jovanne S. Gullina, Ms. Nicolle L. Joson, Ms. Juvy Mhel R. Ramos, and Ms. Sherlyn B. Zurbito College of Management	Economic Pride: The Lived Experiences of LGBTQIA+ Agripreneurs on Financial Accessibility in San Ildefonso, Bulacan
Ms. Allysa Mariz I. Angeles College of Management	Knowledge, Skills, and Attitudes (KSA) of Vegetable Growers toward Post-Harvest Technology in San Ildefonso, Bulacan
Ms. Alwynna Bautista Institute of Arts and Science	Knowledge, Skills, and Attitudes (KSA) of Vegetable Growers toward Post-Harvest Technology in San Ildefonso, Bulacan
Mr. Andrei N. Pamintuan, Mr. Nikole Lawrence P. Dela Cruz, and Ms. Jenelyn P. Laru-an (Paper Presenter) College of Education	AI-Enhanced Comic-Based Self-Learning Modules on Learners' Grammar Proficiency



BASC Launches Two DOST-PCAARRD Quick Response Projects

 KATHRINA BASA

In a significant step toward strengthening community resilience and promoting sustainable livelihoods, Bulacan Agricultural State College (BASC) has secured ₱9.5 million in funding support from the Department of Science and Technology–Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD) for the implementation of two quick response projects under the Good Agri-Aqua Livelihood Initiative towards National Goals (GALING) PCAARRD Kontra Krisis (GPKK) Program.

The projects were officially launched on June 22, 2026, as part of the 15th Anniversary Celebration of DOST-PCAARRD. The GALING-PCAARRD GPKK Program serves as a strategic platform for delivering science and technology innovations in agriculture, aquatic, and natural resources (AANR) to communities

facing various social and environmental challenges.

Representing BASC during the virtual signing of the Statement of Cooperation between DOST-PCAARRD and partner institutions were College President Dr. Jameson H. Tan and the project leaders, Dr. Imee D. Esguerra, Director for Extension Services, and Engr. Benjie C. Timbang, Director of the Palayamanan Research and Development Center. The signing formalized BASC's commitment to implementing interventions that address pressing community needs through science-based solutions.

Leading one of the approved projects is Dr. Esguerra through Generating Resilience and Opportunities for Women (GROW) Amidst the Middle East Conflicts, an initiative that seeks to assist crisis-affected and marginalized households by creating livelihood opportunities and strengthening community resilience amid socio-economic disruptions.

Complementing this effort is Project AGRI-LIFELINE (Establishing a Science-Based Food Security and Disaster Resilience Loop through the BASC-Palayamanan Production Hub), spearheaded by Engr. Timbang. The project aims to transform the BASC Palayamanan R&D Production Hub into a science-based, crisis-responsive food system that enhances food security and disaster preparedness among marginalized families in various municipalities of Bulacan.

Set to commence in July 2026, the two initiatives reflect BASC's continuing commitment to responsive extension and development programs that harness science and innovation to address emerging crises. Through these projects, the College reaffirms its role as a catalyst for community empowerment, resilience building, and sustainable development, ensuring that vulnerable sectors are equipped with the knowledge and opportunities needed to thrive amid changing times.



Melvin B. Carlos, PhD

Reynaldo V. Ebor, PhD

Juanito T. Batalon, PhD

TWG Reviews and REPD Council Approves Projects for 2027 Funding

 HARVINE JAY VIOLA

Rigorous evaluation ensures that only high-quality research and extension projects move forward to support the University's vision for innovation and community development.

For two days, the Bulacan Agricultural State College (BASC) Administration Conference Room became a venue for thoughtful discussions, careful evaluation, and collaborative decision-making as the Technical Working Group (TWG) convened on April 28–29, 2026 to review project proposals for the 2027 funding cycle.

The activity brought together the University's key officials and experts to examine 67 research and extension proposals submitted by various institutes. The primary goal of the evaluation was to determine whether each proposed project would provide meaningful benefits to the University and its stakeholders while ensuring that every proposal met the required technical and academic standards.

Leading the evaluation was BASC President Jameson H. Tan, CeSE, together with Vice President for Research, Extension, Planning and Development Dr. Honeylet J. Nicolas, Vice President for Academic Affairs Dr. Cecilia Santiago, Director for Extension Dr. Imee D. Esguerra, Director for Research Nikki Ann V. Macabontoc, GAD

Director Edna Mae D. Cruz, and IPTBMO Director Dr. Joselito D. Tucit.

Throughout the two-day session, the panel carefully assessed each proposal's objectives, methodology, feasibility, and expected impact. The reviewers also examined the completeness and correctness of the submitted documents, providing constructive recommendations to help proponents strengthen their project designs.

After extensive deliberation, 57 proposals were approved, subject to minor revisions before implementation. Meanwhile, 10 proposals were not endorsed for funding. Some of these proposals were recommended for further improvement, while others were considered more appropriate as student capstone projects, allowing the ideas to continue through another academic avenue.

More than a screening process, the Technical Working Group meeting served as an opportunity to guide proponents toward developing stronger and more impactful projects. Through collaborative evaluation and constructive feedback, BASC reaffirms its dedication to supporting research and extension programs that address real-world challenges and create lasting benefits for society.



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Budget deliberation paves the way for research and extension initiatives that will drive innovation and community development.

The Research, Extension, Planning and Development (REPD) Council of Bulacan Agricultural State College (BASC) convened on May 28, 2026, at the BASC Administration Conference Room to deliberate on the budget for research and extension projects proposed for the 2027 funding cycle.

The deliberation was led by BASC President Jameson H. Tan, together with Vice President for Administration, Finance, and Business Affairs Dr. Ronald Reagan T. Alonzo, Vice President for Research, Extension, Planning and Development Dr. Honeylet J. Nicolas, Director for Extension Dr. Imee D. Esguerra, Director for Research Nikki Ann V. Macabontoc, and Budget and Finance Officer Mrs. Marita P. De Guzman.

During the meeting, the Council carefully reviewed the financial requirements and potential impact of each proposal to ensure that University resources would support projects aligned with BASC's research and extension priorities.

After the deliberation, 57 proposals were approved for 2027 funding, comprising 42 research projects and 15 extension projects. The approved initiatives reflect BASC's continued commitment to advancing research, promoting innovation, and delivering extension programs that create meaningful benefits for communities.

The successful budget deliberation marks another important step in transforming promising ideas into impactful projects that will contribute to the University's mission of academic excellence and sustainable development.

RESEARCH PROJECT

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EXTENSION PROJECT

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Training on ItikPINAS Production and Management

 ARIANA LOUISE DELOS SANTOS

Farmers from across Bulacan gathered at the Bulacan Agricultural State College (BASC) Rene Cayetano Hall to level up their agricultural enterprises at the Training on ItikPinas Production and Management on May 06, 2026.

The event brought together farmers from Pandi, Baliwag City, San Rafael, San Miguel, and San Ildefonso. The training is a core piece of the larger project, “Advancing Sustainable Duck Egg Production in Bulacan through ItikPinas Technology Promotion and Utilization,” funded by the DBM-CLAARRDEC.

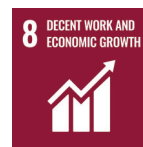
The program launched with opening remarks from Dr. Honeylet J. Nicolas (Vice President for REPD, BASC), followed by an encouraging message from Dr. Aldrin E. Badua (Director of the University Extension Program Office, CLSU). Dr. Joanna Marie S. Bradecina, the Project Leader, then laid out the training framework and

what participants would take away from the day. Dr. Collin Dr. Arroyo, Assistant Professor III, led the technical modules as the primary resource speaker. He provided a deep dive into the current landscape of the Philippine mallard duck industry before walking farmers through practical, everyday management strategies. Technical sessions covered everything from specialized housing systems and feeding strategies to strict biosecurity protocols, health management, and essential recordkeeping for small businesses.

Representatives from

CLAARRDEC—including Dr. Aldrin E. Badua, Mr. Armando C. Lagasca, Ms. Rachele Liberato, and Mr. Ivan Sugue—answered specific farmer concerns during an open forum. This session allowed producers to step away from traditional lectures and trade real-world, peer-to-peer insights with one another.

The event wrapped up with a practical post-test evaluation, awards ceremony, and closing remarks from Dr. Imee D. Esguerra, BASC Extension Services Director. By grounding local communities in modern agricultural technology, this initiative moves the needle on several global milestones, directly aligning with United Nations Sustainable Development Goals (SDGs) for Zero Hunger (SDG 2), Decent Work and Economic Growth (SDG 8), and Responsible Consumption and Production (SDG 12).



Boosting Bulacan's Duck Industry: ItikPINAS Stocks Distributed to Partner-Beneficiaries

Following a successful hands-on training session on ItikPINAS Production and Management early last month, local farmers in Bulacan are officially geared up for production.

From May 13–14, 2026, the project “*Advancing Sustainable Duck Egg Production in Bulacan through ItikPinas Technology Promotion and Utilization*” distributed high-quality feeds and ducklings to farmers across the municipalities of Pandi, San Rafael, San Miguel, and San Ildefonso. Funded by DBM–CLAARRDEC and by Dr. Joanna Marie S. Bradecina, Project Leader, this initiative marks a massive step forward for the region's agricultural community.

The core objective is to empower local farming communities with science-backed practices, sharpen their technical skills, and transform traditional duck farming into a highly profitable, sustainable enterprise.

The distribution is part of a broader, structured effort to uplift 20 small-scale farmers through direct technology adoption, alongside major community outreach goals:

- **Training & Exposure:** 60 farmers trained across two comprehensive sessions, with an additional 160 farmers gaining exposure to new systems via dedicated field days.
- **Infrastructure & Support:** The establishment of 20 high-performing Techno-Demo farms.
- **Sustainability & Market Access:** 25 Memorandums of Agreement (MOAs) forged to ensure organized marketing support, helping farmers sell their products effectively and securely.

By blending modern technology with direct community support, the project is paving the way for a more resilient and prosperous duck industry in Bulacan.



Urgent Meeting on Research Project Progress

To ensure the proper management of ongoing research projects, the Bulacan Agricultural State College (BASC) Research Office conducted an urgent virtual meeting on June 15, 2026, via Zoom to discuss project termination and expense reimbursement.

The meeting focused on recommendations from the Research Office and the Accounting Office regarding projects proposed for termination and the corresponding expenses that needed to be

reimbursed. Faculty project leaders and members were given the opportunity to discuss the status of their respective projects and clarify the necessary actions.

During the discussion, several project teams agreed to reimburse minimal project expenses following the recommendation for termination. Meanwhile, some proponents committed to completing the required reports to finalize their projects, while others were allowed to continue their

research with the recommendation of adding additional proponents to strengthen project implementation.

The meeting highlighted BASC's commitment to responsible research management by ensuring that every project is properly evaluated while providing fair and practical solutions for project teams. Through open communication and collaboration, the University continues to uphold accountability and support quality research initiatives.



Extension 2nd Quarter Highlights

Empowering Communities Through Innovation, Education, and Sustainable Development

 ANGELITO GARCIA

Extension Project Title

Adopt a Community Program - Bahay at Yaman ni San Martin de Porres, Bustos, Bulacan Phase 3

Adopt a Community - Bahay ni San Martin de Porres Computer Essentials (Title of Training Conducted)

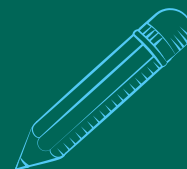
BASC Conducts Cybersecurity Awareness Training for Adopt a Community Program Beneficiaries. As part of the Bulacan Agricultural State College (BASC) internally funded extension project, *"Adopt a Community Program – Bahay at Yaman ni San Martin de Porres, Bustos, Bulacan,"* a one-day Cybersecurity Awareness Training was successfully conducted on April 7, 2026 to equip participants with essential cybersecurity knowledge and digital safety skills.

The program began with registration, an opening prayer, the

Philippine National Anthem, welcome remarks, presentation of objectives, participant introduction by Mr. Ramon Chito E. Sarmiento, and a pre-test administered by the Training Management Team (TMT). Learning sessions covered Cybercrime and Cybersecurity (Mr. Ramon Chito E. Sarmiento), Common Threat Vectors (Ms. Patricia Mae Victoria), the Data Privacy Act of 2012 (Mr. Angelo Laurente), Agriculture (Engr. Sheila Marie F. Gatchalian), Environment (Engr. Robert Anthony C. Wagan), and Best Practices for Individuals (Mr. Laurenz Matthew Pascual). Interactive

workshops and open forum sessions facilitated by the TMT followed each set of discussions to reinforce participants' learning.

The training concluded with a post-test, awarding of certificates of appreciation and participation, and closing activities, with Mr. Laurenz Matthew Pascual serving as the Master of Ceremonies. Through this initiative, BASC strengthened community awareness of cybersecurity, data privacy, and responsible digital practices, helping build a safer and more resilient digital community.



Extension Project Title

Mother Teacher Program: Creating Meaningful Connections at Home Phase 3 Empowering Parents as Home Based Teachers



Nurturing Beginnings: Responsible Parenthood for Young Learners
(Title of Training Conducted)

The College of Education of Bulacan Agricultural State College (BASC), in partnership with Pinaod Central School, successfully conducted the Mother-Teacher Program (MTP) titled "*Nurturing Beginnings: Responsible Parenthood for Young Learners*" on April 24, 2026. The activity aimed to strengthen parents' involvement in their children's education by providing practical strategies for supporting learning and development at home.

The program began with participant registration facilitated by Dr. Viverly E. Mata, followed by an opening prayer led by Mr. John Leo M. Pilit. Dr. Ma. Filipina V. Cruz delivered

the opening remarks, emphasizing the importance of strong parent-teacher collaboration, while inspirational messages were shared by Dr. Maria Krisvie Abigale F. Mendoza and Dr. Julieta A. Asuncion. The resource speakers were introduced by Dr. Ma. Leonora C. Sta. Ana.

The learning sessions featured "*Supporting Learning at Home*," presented by Dr. Julieta A. Asuncion and Dr. Viverly E. Mata, highlighting practical ways parents can assist with homework, encourage reading, and establish effective study routines. The second session, "*Effective Parent-Child Communication*," was facilitated by Ms. Camille A. Sese and Mr. John Leo

M. Pilit, focusing on active listening, understanding children's emotions, and fostering open communication and trust. While the parents attended the sessions, learners participated in guided reading and educational games facilitated by BEED students. The program was facilitated by Ms. Camille A. Sese, with photo documentation handled by Mr. John Leo M. Pilit.

Through this initiative, BASC reinforced its commitment to promoting responsible parenthood and strengthening partnerships between schools and families, empowering parents to become active partners in their children's learning and overall development.

Nurturing Beginnings: Responsible Parenthood for Young Learners Monitoring and Motivating Children: Tracking Progress, Encouraging Effort, and Growth Mindset

(Title of Training Conducted)

On May 22, 2026, the College of Education of Bulacan Agricultural State College (BASC) successfully conducted the extension activity *"Nurturing Beginnings: Responsible Parenthood for Young Learners Monitoring and Motivating Children: Tracking Progress, Encouraging Effort, and Growth Mindset."* The program focused on helping parents effectively monitor their children's academic progress, encourage consistent effort, develop positive study habits, and foster

a growth mindset through active collaboration between the home and the school.

The activity featured a morning session that equipped parents with practical strategies for supporting their children's learning and motivation. In the afternoon, participants took part in an open forum and sharing of experiences, where they discussed challenges and effective parenting practices, followed by the completion of evaluation forms to assess the program's impact and gather feedback

for future activities.

The extension activity was spearheaded by Dr. Maria Krisvie Abigale F. Mendoza, together with Dr. Julieta A. Asuncion and Ms. Cynthia M. Sanchez, whose leadership ensured the successful implementation of the program. Through this initiative, the College of Education reaffirmed its commitment to empowering parents as active partners in promoting learners' academic growth, motivation, and holistic development.



Connect, Count, Comprehend (3Cs) A Parents' Literacy and Numeracy Empowerment Program

(Title of Training Conducted)

College of Education Empowers Parents to Support Children's Reading Development.

On June 26, 2026, the College of Education (CED) successfully conducted the first session of its Extension Project Series of Training, equipping parents with the knowledge and skills to become active reading coaches for their children. The activity aimed to strengthen parents' capacity to support literacy development at home and reinforce the partnership between families and schools.

The morning session introduced practical reading strategies, including phonological awareness, sight-word recognition, vocabulary development, and guided reading techniques, while emphasizing the importance of creating a positive home literacy environment. Simultaneously, Grade 2 pupils participated in reading assessment activities to identify their strengths and areas for improvement, providing baseline data for future literacy interventions and parent guidance.

In the afternoon, parents

participated in an open forum and sharing of experiences, followed by the completion of evaluation forms to assess the training's effectiveness. The activity was spearheaded by Dr. Maria Krisvie Abigale F. Mendoza, Dr. Julieta A. Asuncion, Ms. Cynthia M. Sanchez, Dr. Ma. Leonora C. Sta. Ana, Prof. Jennifer I. Guevarra, and Dr. Viverly E. Mata, reaffirming the College's commitment to promoting literacy and empowering parents as partners in their children's academic success.

Training on Food Processing and Value Adding

(Title of Training Conducted)

BASC Empowers Women Farmers Through Food Processing and Value-Adding Training.

As part of the DOST-PCAARRD-funded project, "*Expanding Women-led Integrated Backyard Farming in Bulacan through the Science and Technology Community-Based Farm (STCBF) Modality*," women farmer-beneficiaries from Pulilan, Bocaue, and Baliwag City, Bulacan participated in a Training on Food Processing and Value Adding at the Bulacan Agricultural State College (BASC) Farmers Training Center (FTC).

The activity brought together members of Juanang Pangkabuhayan ng Bocaue, Lakas ng Kababaihan para sa Calantipay, and Samahan ng mga Kababaihan tungo sa Paggugulayan at Paghahayupan to strengthen their livelihood opportunities by transforming farm produce into marketable food products. Participants received both theoretical and hands-on training in preparing chicken tocino, chicken longganisa, chicken tapa, banana chips, pickled ampalaya, and instant ginger tea, while also learning proper food handling, preservation, product costing, and pricing.

The training was facilitated by BASC faculty members Ms. Crisabel C. Fajardo, Ms. Marielle G. Vergara, Ms.

Joy Christine V. Sta. Cruz, Ms. Joan DG. De Leon, and Ms. Lea S. Agbayani, fostering collaborative learning and enhancing participants' technical and entrepreneurial skills.

An awarding ceremony recognized outstanding participants and groups, including Herson Alvarez (Most Supportive Project Focal Person), Baliwag City (Best Model Farm), Grace Esguerra & Family (Family Participation Award), Elsie Migue (Most Creative Backyard Garden), Ma. Avinia Cruz (Harvest Festival Queen), Susana Porciuncula (Best Farmer Leader), Liza Tiquia (Best Integrated Backyard Set-Up), Eva Nera (Best in Recordkeeping and Best in Vegetable Production), Ceprina Cristobal (Best in FRC Production), Eva Nera, Anacorita Ramos, and Guillermina San Pedro (Best Women Farmer Project Adopters), and Juanang Pangkabuhayan ng Bocaue (Special Recognition for Community Service).

Through this initiative, BASC continues to

empower women farmers by equipping them with value-adding skills that promote entrepreneurship, improve livelihoods, and support the achievement of Sustainable Development Goals (SDGs) 2 (Zero Hunger), 5 (Gender Equality), and 8 (Decent Work and Economic Growth).





Extension Project Title

METS Level Up 3.2: Empowering Women Through Donut Commercialization and Sustainable Subsistence Gardening

Assisting RIC Bulusukan in Developing Product Identity through Logo Design and Social Media Marketing (Title of Training Conducted)

The College of Management was conducted the training "Assisting RIC Bulusukan in Developing Product Identity through Logo Design and Social Media Marketing" under the extension project METS Level Up 3.2: Empowering Women Through Donut Commercialization and Sustainable Subsistence Gardening. The activity aims to strengthen the capabilities of the Rural Improvement Club (RIC) of Barangay Bulusukan in developing a distinct product identity and effectively promoting their donut products through logo design and social media management, while enhancing their confidence and enterprise development skills.

The program commenced with participant registration facilitated by Ms. Aisanne Marie S. McNatt, followed by a photo opportunity at the BASC Grounds, courtesy call, and visits to the

Palayamanan Site and Food Innovation Center. The opening program included the prayer and national anthem led by Ms. Annie Rose P. Pagdanganan, welcome remarks by Dr. Imee D. Esguerra, introduction of the training objectives by Dr. Mellanie B. Pascua, and introduction of the resource speaker by Dr. Sigrid Ann V. Jao. A pre-test was administered by Ms. Anabel A. Alayon, while the BASC VMGO was presented by Dr. Ronald Reagan T. Alonzo.

The afternoon sessions featured lectures on Social Media Marketing and Logo Making by Dr. Billy Joe V. Villena and Basic Intellectual Property: Concepts and Processes by Ms. Karen C. Wagan-Pastrana. The training concluded with a post-test, training evaluation, awarding of certificates, and closing remarks delivered by Dr. Rodrigo G. Buenaventura. The activity was hosted by Ms. Leah V. Indon and Ms. Janice D. San Juan as Masters of Ceremony.

Through this capability-building initiative, the College of Management continues to promote women empowerment, entrepreneurship, and sustainable community development by equipping RIC members with practical branding and marketing skills to support the growth of their community enterprise.





Extension Project Title

TECHnoPASTOL: RFID Solutions for Sustainable Ruminant Farming and Community Empowerment (An Implementation of Ruminant Management System San Ildefonso Farmers)

TECHnoPASTOL: Training on RFID-Based Innovations for Sustainable Ruminant Farming
(Title of Training Conducted)

Farmers, students, and agricultural practitioners gathered for TECHNOPASTOL, a capability-building activity designed to strengthen knowledge and promote innovation in sustainable ruminant farming. The event served as a platform for participants to learn modern technologies and best practices that can improve livestock productivity, animal health, and farm management.

The program featured a series of expert-led discussions, beginning with Dr. Anthony V. Ferrer, who discussed reproduction management and modern breeding strategies to enhance herd productivity. Dr. Celso S. Sto. Domingo followed with a session on livestock health management and disease control, emphasizing early detection, vaccination, and digital monitoring

systems. Ms. Joy Christine Sta. Cruz shared practical techniques on hygienic milk handling to ensure product quality, food safety, and increased market value.

The afternoon sessions focused on digital innovation in livestock production. Dr. Ma. Melanie A. Cruz introduced the use of RFID technology for monitoring animal health, movement, and farm records, while Mr. Ivan Justin L. Blas demonstrated a real-time monitoring system for accurate milk yield reporting and efficient farm management.

By integrating scientific knowledge with emerging technologies, TECHNOPASTOL empowered participants to embrace modern, data-driven farming practices, reinforcing the importance of innovation in building a more productive, efficient, and sustainable future for the ruminant industry.





CERTIFICATE OF REGISTRATION UTILITY MODEL

REGISTRATION NO. 2/2025/051295

Having complied with the provisions of Republic Act No. 8293 and its regulations, this Office certifies that this Registration with the following particulars was registered on **30 March 2026** with a term until **24 September 2032**, unless otherwise earlier cancelled.

This registration grants the registrant the right to restrain, prohibit any unauthorized person or entity from making, using, offering for sale, selling or importing a product (if a registered product) and importing any product obtained directly or indirectly from such process (if a registered process).

Registrant:

BULACAN AGRICULTURAL STATE COLLEGE (San Ildefonso, Bulacan, PH)

Title of the Utility Model:

COMPOSITION OF RABBIT MEAT FLOSS

Makers:

ESPIRITU, Jocelyn A. (San Ildefonso, Bulacan, PH); GATDULA, Michelle M. (San Ildefonso, Bulacan, PH); VILLENA, Billy Joe V. (San Ildefonso, Bulacan, PH) and MCNATT, Aisanne Marie S. (San Ildefonso, Bulacan, PH)

Publication Date:
23 January 2026

MARIA CRISTINA
OIC-Director

Beyond the Classic: Rabbit Meat Floss

 VAN LAWRENCE UMEREZ

The Intellectual Property Office of the Philippines (IPOPHL) has granted Certificate of Registration for the Utility Model "Composition of Rabbit Meat Floss", an innovation developed by four inventors from the College of Management: Dr. Jocelyn A. Espiritu, Dr. Michelle M. Gatdula, Dr. Billy Joe V. Villena, and Ms. Aisanne Marie S. McNatt.

While meat floss has long been a popular food product, this innovation distinguishes itself by using rabbit meat as its primary ingredient. Naturally high in protein and low in fat, rabbit meat offers a healthier alternative to conventional meat floss traditionally made from pork or beef. The carefully selected blend of ingredients enhances the product's flavor and texture, creating a distinctive and nutritious variation of the classic favorite. Moreover, the formulation contains no artificial additives, pigments, or sodium nitrate, resulting in a natural, chemical-free product with an extended shelf life.

This innovative rabbit meat floss provides a high-protein alternative for health-conscious consumers while introducing a unique value-added rabbit meat product that broadens consumer choices in the market.

One Paper, Loads of Knowledge

 VAN LAWRENCE UMERZ



BULACAN AGRICULTURAL STATE COLLEGE
at
Department of Science and Technology -
Philippine Council for Agriculture, Aquatic, and
Natural Resources Research and Development

Ang babasahing ito ay bunga ng proyektong **"Expanding Women-led Integrated Backyard Farming in Bulacan through the S&T Community-based Farm (STCBF) Modality"** na isinagawa ng Bulacan Agricultural State College (BASC), gamit ang pondo mula sa Department of Science and Technology - Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development

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Isang institusyon ng agrikultura at mga katulad na disiplina na may pandaigdigang pakikilahok

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BASC GOALS

- Sustained Excellence in Instruction
- Innovative RDE System and Competitive S&T Products
- Adequate and Sustainable Resource Generation Activities
- Efficient, Effective and Client-Centered Administrative Support Services
- Functional and Adequate Physical

PAMAMARAAN SA PAGPUPUNLA NG GULAY
(Kamatis, Talong, at Sili)



PARA SA KARAGDAGANG IMPORMASYON

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Additional Certificates of Registration for Copyright have been issued by the Intellectual Property Office of the Philippines (IPOPHL) for four Information, Education, and Communication (IEC) materials. These informative materials were developed under the project *"Expanding Women-led Integrated Backyard Farming in Bulacan through the S&T Community-based Farm (STCBF) Modality,"* implemented by Bulacan Agricultural State College (BASC) with funding support from the Department of Science and Technology - Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD). Designed as brochures, these IEC materials provide practical guidance on various agricultural practices in a portable and accessible format.

Solid Waste Management, developed by Mr. Rodelio T. Alejo (CAGSA), introduces readers to the fundamentals of Solid Waste Management including its definition, classifications, practical tips, and the benefits of composting.

Vermicompost Production, also developed by Mr. Alejo, is another instructional material that defines Vermicomposting, highlights its advantages, and provides a comprehensive step-by-step guide to production.

Pamamaraan sa Pagpupunla ng Gulay is a collaborative work by Mr. Rodelio T. Alejo, Mr. Denvir E. Godoy (CAGSA), and Dr. Imee D. Esguerra (CM). It serves as a practical guide to seedling production, particularly for tomatoes, eggplants, and chili peppers.

Lastly, Gabay sa Pagpapapisa ng Itlog Gamit ang Incubator, developed by Ms. Joanna Marie S. Bradecina (CAGSA), Ms. Imelda SA. Navarro, and Ms. Kathrina J. Basa (REPD-Extension), is a manual on essential procedures of artificial egg incubation.

Juanang Pangkabuhayan Launches Community Pantry

ARIANA LOUISE DELOS SANTOS



Photo of: Members of Juanang Pangkabuhayan pose with fresh vegetables during the launch of the Community Pantry in Sitio Tugatog.

In a remarkable display of health awareness and community solidarity, the Juanang Pangkabuhayan ng Bocaue successfully launched a community pantry today in Sitio Tugatog, Brgy. Tambubong on April 10, 2026.

The initiative aimed to distribute free, safe, and nutritious food to the local community. It serves as a direct response to the economic pressures brought about by the ongoing conflict in the Middle East involving Israel, the United States, and Iran, which has triggered continuous oil price hikes and driven up the cost of everyday commodities. Remarkably, the fresh vegetables, eggs, and fruits distributed during the event were harvested straight from the backyard gardens meticulously tended by the

association's own members.

The Juanang Pangkabuhayan ng Bocaue is a women's association and the primary beneficiary of the project, "Expanding Women-led Integrated Backyard Farming in Bulacan through the Science and Technology Community Based-Farm (STCBF) Modality."

This program is spearheaded by the Bulacan Agricultural State College (BASC) in partnership with the Municipal Government of Bocaue, Bulacan, and is funded by DOST-PCAARRD. The project focuses on empowering women by equipping them with modern, safe, and sustainable farming technologies. Guided by a spirit of paying it forward, the women's group aimed to share the agricultural blessings they received from the project with families who need them

most during these challenging times.

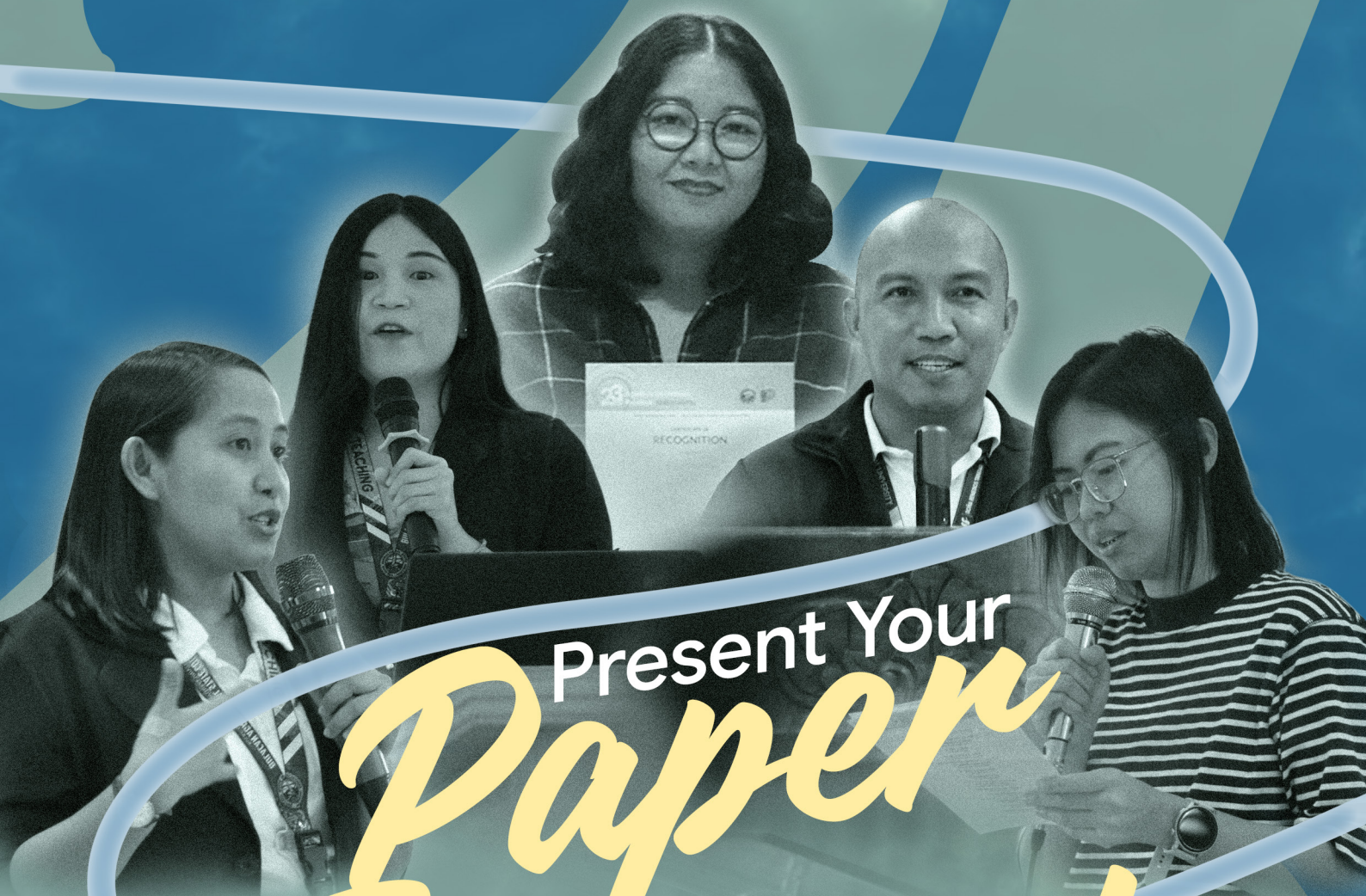
Under the leadership of their president, Mrs. Susana Prociuncula "Ate Susie", the organization proved that the hard work of local "Juanas" plays a vital role in ensuring community food security. The reach of the pantry extended far beyond Brgy. Tambubong. More than fifty (50) families—including residents from the neighboring barangays of Taal and Batia—went home with fresh, locally grown produce.

The successful launch was also strongly backed by local officials and project leaders, including: Mrs. Ana Liza M. Hernandez, Municipal Agriculture Officer (MAO) of Bocaue, Mr. Pablo Castillo Jr., Punong Barangay of Tambubong, and Engr. Jennifer V. Agapito, Project Focal Person.

September 10, 2026

2th Agency In-House Review

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