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**FY 2021 PROGRAMS, PROJECTS AND ACTIVITIES (PPAs), BENEFICIARIES AND STATUS OF IMPLEMENTATION**

<b>FY 2021 COMPLETED RESEARCHES</b>	<b>Beneficiaries</b>	<b>STATUS</b>
Professional Development and Classroom Assessment Practices of the Faculty of College of Teacher Education in the New Normal: A Nonparametric Approach by Polemer M. Cuarto* and Harieth C. Cuarto	Faculty and Students	Completed
Calamansi Juice enriched with Malunggay (Moringa oleifera) and Aratiles (Muntingia calabura, Linn) Leaf Extract by Ronie F. Magsino*	Researchers, Community, Faculty, Students	Completed
BSIT Internship Portal by Michael Anthony E. Abante, Norven S. Seño, Dezza Marie M. Magsino*, Kristianne Aleza Marie L. Javier	Faculty and Students	Completed
Viability of Naujan Lake National Park (NLNP) as a Tourism Economic Zone and the Potential Tourism Activities by Dr. Christian Anthony C. Agutaya*	Researchers, Faculty, Students, Community, Neighboring Local Government Units	Completed
Factors that influence Senior High School Graduates' Choice of Career in MinSCAT Calapan City Campus by Emelinda E. Rivera and Sheridan C. Bicaldo*	Faculty and Students	Completed
Performance of Composite Coconut, Spiny Yam and Wheat Flour in Various Vacuum Fried Flavored Crackers and Evaluation of its Sensory Characteristics by Mena A. Caoli*, Ronie F. Magsino, Mario A. De Castro, Jr. and Mary Joy C. Talingting	Faculty and Students	Completed
Product evaluation and sensory characteristics of ready-to-drink rice coffee blends in three formulations by Ronie F. Magsino*	Researchers, Faculty, Students and Community	Completed
Sensory characteristic and product evaluation of Coconami composite flour on chocolate crinkles production by Mario A. De Castro*, Jr., Ronie F. Magsino and Jessel M. Abata	Researchers, Faculty, Students and Community	Completed

Development and performance assessment of adaptive electric fan by Harvey M. Amuin, Leslie T. Cortez, Jesrael H. Florendo, Roderick B. Manhik, Mark Jessie C. Roallas, Jolly P. Masikap*, Ernie E. Consul and Alexis P. Fortunato	Researchers, Faculty, Students and Community	Completed
A tool to assess the quality of self-learning modules (SLMs) for the 'new normal' in education using the Best-Worst Method (BWM) by Jammel Abraham S. Rico* and Leonel C. Mendoza	Faculty and Students	Completed
Digital Writing Platform of School Publications: Basis for Development of Online Journalism by Noemi Gallardo*, Camille Carpio and Leonel C. Mendoza	Aspiring Journalists, Students and Faculty	Completed
Challenges and Best Farm Practices that affect entrepreneurship skills of farm operators in Oriental Mindoro by Dr. Franie M. Afable*	Farmers, Community Members	Completed
GREENHOUSE GAS REDUCTION CAPACITY OF MANGROVES by RANDY A. QUITAIN	Researchers and Community Members	Completed
ECOSYSTEM-BASED DISASTER RISK REDUCTION ASSESSMENT TOOL FOR MANGROVE ECOSYSTEM SERVICES by RANDY A. QUITAIN AND PHARES P. PARAYNO	Researchers, Community Members, Farmers & Fisherfolks	Completed
ECONOMIC VALUE OF SEASONAL CLIMATE FORECAST FOR CORN PRODUCTION IN BANSUD, ORIENTAL MINDORO by RANDY A. QUITAIN	Researchers, Community Members and Farmers	Completed
Enhancing Yield of Banana Lakatan ( <i>Musa acuminata</i> L.) by Optimizing Vegetative Growth through Fertilization by Elisa M. Agoncillo, Edgardo S. Agoncillo, Jonjon C. Ballenas, Jovelyn P. De Guzman and Jorge C. Gawad	Farmers, Community Members, Researchers, Faculty and Students	Completed
Level of ICT Skills of Katutubong Mindoreño Elementary School Teachers in Victoria District: Basis for ICT Training Program by John Edgar S. Anthony	IPs, Community Members, Faculty and Students	Completed
Level of Readiness in Learning Strand 6-Digital Citizenship of Junior High School Learners of Alternative Learning System in Victoria District John Edgar S. Anthony	ALS Students, Faculty and Researchers	Completed
Azolla: Easing Broiler Farming's Feed Cost by Prime Gilbert T. Rieta	Farmers, Community Members, Researchers, Faculty and Students	Completed
Adaptability of Four Commercial Hybrid Rice Varieties under MinSCAT Condition by Christian B. Apostol, Levy B. Arago, Jr. and Kaycee Alcaraz	Farmers, Community Members, Researchers, Faculty and Students	Completed
Improving the Disaster Risk Reduction and Management of Mindoro State College of Agriculture and Technology (MinSCAT) under the Lens of Resilience by Wilma C. De Los Santos	Community Members, Farmers and Fisherfolks, Faculty, Students and Employees	Completed
Multi-Purpose Cooperatives' Marketing Strategies and Financial Performance: Basis for Operational Framework by Katherine R. Torres and Flordemae V. Ines	Emtrepreneurs, Farmers, Community Members, Faculty and Students	Completed
Development of a Mini-Twin Shaft Polyethtlene Terephthalate (PET) Bottle Shredder by Marjun E. Caguay	Researchers, Community Members, Faculty and Students	Completed
On $(Z^*p, x)$ Cyclic Groups Ideologies by Dr. Polemer M. Cuarto*	Faculty and Students	Completed
Blended Learning: Praxis for Learning from Home in Pandemic Crisis by Dr. Enya Marie D. Apostol*	Researchers, Faculty and Students	Completed

Coping Mechanisms from Cultural Displacement Depicted in Kazuo Ishiguro's An Artist of the Floating World by Dr. Harieth C. Cawagdan-Cuarto*	Researchers, Faculty and Students	Completed
An Ecological Perspective of Academic Writing Challenges by Pinky B. Carig	Researchers, Faculty and Students	Completed
ViadiM: An IoT-Based Automated Viand Vendo Machine by Jennie T. Fernando	Community Members, Researchers, Faculty, Students and Employees	Completed
AuPiggyMated: An IoT-Based Smart Pigpen for Cleaning, Monitoring, and Auto-Feeding of Hogs by Jennie T. Fernando	Farmers, Researchers, Community Members, Faculty and Students	Completed
PakBeat: Game Development Integrated Pest Management by Cirile Dominic A. Horlador, Harold Y. Bangalisan, Christine A. Luzon, Jennie T. Fernando and John Edgar S. Anthony	Farmers, Researchers, Community Members, Faculty and Students	Completed
Computer Literacy Training on Computer and Microsoft Application: Its Effectiveness Throughout the Five Year Conduct for Elementary Pupils of Minas and Alcate Elementary School by John Edgar S. Anthony	Elementary Students, Faculty and Researchers	Completed
ANDROID-BASED FINGERLINGS PRODUCTION MONITORING SYSTEM USING RASPBERRY PI by SHERYL MAY D. LAINEZ	Fisherfolks, Community Members	Completed
KABISAAN NG SANAYANG PAPEL SA PAGTUTURO NG KAYARIAN NG WIKA by JEAN I. BAJITA AND JAY B. FALLAN	Faculty and Students	Completed
SI ANTOON POSTMA AT ANG KULTURANG MANGYAN: TALAMBUHAY NG ISANG INTELEKTWAL (1929-2016) by JAY B. FALLAN, JESSAMAE M. VILLARUEL, AND KRIS ANN P. CABUNYAG	IPs, Community Members, Faculty and Students	Completed
PARUPARO: ISANG PAGDALUMAT SA PILIPINONG KONSEPTO NG KAMATAYAN by EUGENE V. DE GUZMAN	Faculty and Students	Completed
FISH CATCH COMPOSITION AND VOLUME IN THE MUNICIPALITY OF BONGABONG, ORIENTAL MINDORO by FRITZ DUSTIN M. FIEDALAN, ELSIE Y. GUIBONE, MAILEN MAE B. YADAO, LEONARDO C. GRESOS, ROLAND D. URATE, REGAL R. IZON, KATHERINE P. SANCHEZ-ESCALONA, AND ABELLE F. BALAGTAS	Fisherfolks, Community Members, Researchers, Faculty and Students	Completed
Anticipatory Assessment Through Information Security Awareness: Approaching of Local Government Units in the Province of Oriental Mindoro by NICKO A. MAGNAYE	LGUs, Community Members, Researchers, Faculty and Students	Completed
Women's Decision-Making Participation and Understanding of Climate Change: Implications on Average Seasonal Harvest of Smallholder Corn Farmers by Jessie Ray B. Mangundayao and Wilma C. Delos Santos	Community Members, Researchers, Faculty and Students	Completed
e-Kalakal: A B2C e-Commerce Platform for Agriculture Products by Christine A. Luzon	Farmers, Entrepreneurs, Community Members, Researchers, Faculty and Students	Completed
MISS: Management Information Support System Applied to Job Ticketing by Paolo Michael L. Lafuente and Harold Y. Bangalisan	Community Members, Researchers, Faculty and Students	Completed
eParkMo: An IoT-Based Solar Powered Motorcycle Parking Shell by Darius M. Abog	Community Members, Researchers, Faculty and Students	Completed

Level of ICT Skills of Katutubong Mindoreño School Teachers in Victoria District: Basis for ICT Literacy Training Program by John Edgar S. Anthony	IP Teachers, IP Students, Community Members, Researchers, Faculty and Students of MinSU	Completed
Hanuspeak: A Hanunuo Language Learning Mobile Application by John Edgar S. Anthony	IPs, Community Members, Reserachers, Faculty and Students	Completed
The Effectiveness of IT Society Computer Literacy Training on Computer Operations and Microsoft Application for Elementary Pupils of Villa Cerveza Elementary School by John Edgar S. Anthony	Elementary Students, Faculty, BSIT Students and Researchers	Completed
EG-QUITECH: An IoT-Based Quail Production and Monitoring Management by Cirile Dominic A. Horlador	Farmers, Researchers, Faculty and Students	Completed
Population Differentiation of <i>Glossogobius giuris</i> (Hamilton 1822) of Naujan Lake through Geometric Morphometrics by Katherine P. Sanches-Escalona, Kidelyn I. Lomio, Elsie Y. Guibone, Abelle F. Balagtas, John L. Malapote and Fritz Dustin M. Fidelan	Fisherfolks, Researchers, Faculty, Students and Community Members	Completed
Morphological Variation of <i>Glossogobius qiuris</i> across four lakes in the Philippines by Katherine P. Sanches-Escalona, Kidelyn I. Lomio, Viva Princess Basa and John L. Malapote	Fisherfolks, Researchers, Faculty, Students and Community Members	Completed
Assessment of Reef Associated Fishes in Mansalay Bay, Oriental Mindoro by Katherine P. Sanches-Escalona, Elsie Y. Guibone and Clarisse Anne Pereira	Fisherfolks, Researchers, Faculty, Students and Community Members	Completed
Gender-Responsive Human Resource Management and Development in Local Government Units (LGUs) by Christian Anthony C. Agutaya	Community Members, Researchers, Faculty and Students	Completed
Assessing the Monetary Value of Seasonal Climate Forecast on Rice Yield Through Decision Tree Analysis by Wilma C. De Los Santos	Farmers, Community Members, Researchers, Faculty and Students	Completed
Exploration of the Aquaculture Potentials of the Naujan White Goby by Katherine P. Sanches-Escalona, Kidelyn I. Lomio, Elsie Y. Guibone, Abelle F. Balagtas, John L. Malapote, Algeline S. Herrera and Viva Princess Basa	Fisherfolks, Community Members, Researchers, Faculty and Students	Completed
Learning Experiences and Dimensions of Wellness of Indigenous 10th Graders in Batangan Buhid High School by Jessie Ray B. Mangundayao	IP Students, Researchers, Faculty	Completed
Math Anxiety and Mathematics Performance of Grade 10 Mangyan Learners Under New Normal: A Basis for strategic Intervention Material by Jessi Ray B. Mangundayao	Faculty, Students and Researchers	Completed
Performance in Fundamental Operations in Mathematics of Indigenous Pupils from Mangyan Schools and Regular Public Schools in Victoria, Oriental Mindoro by Mary Ann M. Hernandez	IP Students, Researchers, Faculty	Completed
Mathematical Difficulties of Grade 7 IP Students: Basis for Mathematical Intervention by Anna Liza A. Vitto	IP Students, Researchers, Faculty	Completed
Implementation of Gender and Development in Mindoro State University: An Evaluation by Christine A. Luzon, Sharon M. Gardoce and Joan F. Politico	Faculty, Students and Employees	Completed
Natural Hazards and their Impacts to the Three Campuses of Mindoro State University by Wilma C. De Los Santos	Community Members, Farmers, Fisherfolks, Faculty, Students, Employees	Completed
MinSTrack App: Mindoro State University Covid 19 Web Application Tracking System by John Edgar S. Anthony	Health Unit, Students, Faculty, Employees	Completed

Efficiency and Acceptability of MalnuTech: An IoT-Based Health Condition Monitoring System in Mindoro State University by John Edgar S. Anthony	Health Unit, Students, Faculty, Employees	Completed
PetCare: An Educational and Interactive Game for Domesticated Animals by John Edgar S. Anthony	Researchers, Faculty, Students	Completed
Development of St. Laurence Hospital Management and Information System by John Edgar S. Anthony	Community Members, Patients, Researchers, Faculty, Students	Completed
eQuaraTiMo: A Covid-19 Patient Monitoring System by John Edgar S. Anthony	Health Unit, Students, Faculty, Employees	Completed
Women's Role in Household Decision Making around Farming and Climate Change Adaptation utilizing Climate and Weather Information by Wilma C. De Los Santos	Farmers, Fisherfolks, Households, Researchers, Faculty, Students, Community Members	Completed
eClothTech: An IoT-Based Clothes Retriever and Drying System with Mobile Application by John Edgar S. Anthony	Community Members, Researchers, Faculty and Students	Completed
Problem Solving Skills of IP Students in the Inclusive Classroom: A Gender Disparity by Jessie Ray B. Mangundayao	IPs, Community Members, Faculty and Students	Completed
Strengthening GAD Awareness of MinSCAT Stakeholders: Best Practices and Advocacy by Christine A. Luzon	Stakeholders, Faculty, Students and Employees	Completed
Physicochemical Properties and Sensory Attributes of Soap Formulations Containing Ethanolic Extracts of Jathropa podagrica roots, Solanum lycopersicum skin, and Pandanus amarylifolius leaves by Jammel Abraham S. Rico, Mary Rose M. Macalindol, Abegail S. Boongaling, and Leonel C. Mendoza	Researchers, Entrepreneurs, Community Members, Faculty and Students	Completed
Hazard and Climate Risk Management of Farming and Fishing Communities in Garchitorena by Wilma C. De Los Santos	Farmers, Fisherfolks, Researchers, Faculty, Students	Completed
Development, Acceptability and Effectiveness of Recorded Lecture Video on Basic Operations in Complex Numbers by Merwin E. Lagrosa, Mary Ann R. Enriquez, Arabella A. Familara, Jessa D. Noche and Lovelyn L. Chen	Researchers, Faculty, Students	Completed
Income of Banana Farmers in Baco, Oriental Mindoro, Philippines in Relation to Some Variables Christian Anthony C. Agutaya	Farmers, Researchers, Faculty, Students	Completed
WeProlake: A Lake Monitoring Mobile Application with Data Analysis by Jennie T. Fernando	Farmers, Fisherfolks, Researchers, Faculty, Students	Completed
The Effectiveness of Computer-Assisted Instructions (CAI) in Teaching C# Programming Lessons in Computer Programming 2 by John Edgar S. Anthony	Researchers, Faculty, Students	Completed
Level of Academic Performance of BSIT Second Year Students in Information Management Course Using Asynchronous and Synchronous Approach: A Comparison of Learners Achievement by John Edgar S. Anthony	Researchers, Faculty, Students	Completed
Analyzing the Effectiveness of OMSITE: Oriental Mindoro Sustainable Information Technology Education Training Throughout Five-Year Conduct for Public Primary and Secondary Schools by John Edgar S. Anthony	Researchers, Faculty, Students	Completed

Climate Change and Rice Production in Victoria, Oriental Mindoro, Philippines by Christian Anthony C. Agutaya	Farmers, Entrepreneurs, Researchers, Faculty and Students	Completed
Classifying Calamansi ( <i>Citrofortunella microcarpa</i> ) using Convolutional Neural Network by Epie F. Custudio and Alexander Hernandez	Farmers, Researchers, Community Members, Faculty and Students	Completed

Prepared by:

  
**REYNALDO S. MANALO**  
 Science Research Specialist

**February 28, 2022**

Date

Approved by:

  
**CHRISTIAN ANTHONY C. AGUTAYA, Ph.D.**  
 Vice President for Research, Development and Extension

**February 28, 2022**

Date

•Main Campus, Alcate, Victoria    •Bongabong Campus, Labasan, Bongabong    •Calapan City Campus, Masipit Calapan City