

DMMMSU

Don Mariano Marcos Memorial State University

ANNUAL REPORT

SY 2021-2022





DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY

Sapilang, Bacnotan, La Union

✉ president@dmmmsu.edu.ph

12 June 2022

President Rodrigo Roa Duterte

Republic of the Philippines

Through

Honorable J. Prospero E. De Vera III

Chairperson, DMMMSU Board of Regents

Chairperson, Commission on Higher Education

Dear President Duterte:

I am pleased to submit to you the Annual Report of Don Mariano Marcos Memorial State University for the SY 2021-2022.

This Annual Report contains the highlights of accomplishments of DMMMSU in its mandates namely instruction, research, and extension. It also contains reports on infrastructure and administration, highlighting our accomplishments in quality assurance.

We vow to continue to do our best to serve various stakeholders in La Union and nearby provinces and contribute in the country's National Development.

Sipupudno,

JAIME I. MANUEL, JR.

CONTENTS AND EXECUTIVE SUMMARY

ADMINISTRATION

1

DMMMSU passed the 1st Surveillance Audit which was conducted on November 8-12, 2021, and the PRIME-HRM Maturity Level II in Rewards and Recognition and Learning and Development on November 15, 2021, and March 23, 2022, respectively.

INSTRUCTION

5

DMMMSU houses 5 Centers of Development, 2 Provincial Institutes, and 2 TESDA Recognized Assessment Centers. Also, it boasts of 20 Level IV Accredited Academic Programs. As of the first quarter of 2022, 93 percent of undergraduate programs and 34 percent of graduate programs have received certificate of program compliance. As for DMMMSU's performance in Licensure Examinations, in 2021, 77.78 percent of the programs garnered a passing rate which is higher than the national passing rate. In 2022, the seven programs with board examinations all received a rating above the national passing rate. In addition, DMMMSU produced topnotchers in the Board Examinations. They are Monica E. Cacayan, 5th placer in Veterinary Medicine, Bustamante F. Molina, 8th placer and Denver G. Frigillana, 9th placer in the same program.

RESEARCH

24

As for research, the administration has fully funded and incentivized the research unit in support of its various endeavors. Because of this, research outputs increased. In 2021, 211 were conducted and 87 were completed. DMMMSU also had 18 publications, 134 citations, 20 patents and copyrights, and 82 exhibits/productions. In addition, DMMMSU personnel won awards in conferences. All these achievements were incentivized. DMMMSU co-hosted two international conference and outsourced 161 million pesos for research and development projects.

CONTENTS AND EXECUTIVE SUMMARY

EXTENSION

51

DMMMSU takes the lead in implementing research-based community extension programs. It participated in six technology exhibits, conducted 215 trainings, served 32, 781 trainees, and conducted 144 extension programs. It has 96 active partnerships with LGUs, industries, NGOs, NGAs, SMEs and other stakeholders, 1628 technology adopters, and transferred 62 technologies.

INFRASTRUCTURE

59

From its GAA-Fund, in 2021 the University spent 150 million pesos for its infrastructure projects. It spends P322, 845, 000 pesos in 2022. From its local fund, it spent P37, 389, 988 in 2021, and it spends P156, 257, 684 in 2022. Through the initiative and leadership of Dr. Jaime I. Manuel, Jr., DMMMSU was able to outsource P99,600,000 and P10,000,000 for infrastructure projects in 2021 and 2022, respectively.

Guided by its Information System Strategic Plan and Operational Plan, the Office of the Management of Information System through the prompting of President Manuel rigorously addressed the University's Strategic concerns for ICT use. The COVID-19 pandemic has challenged the office with overwhelming demand for ICT infrastructure and services for more than two years now. The University has continued to deliver quality and highly commendable services to students, clients, and stakeholders.

From 2019 to 2022, DMMMSU received P95,099,000 funds from the General Appropriation Act for the provision of educational services. Four (4) ICT projects amounting to P45,640,000 are funded through the University income and two (2) ICT projects amounting to P34,967,745 are funded by CHED.

ISO Certification

The **1st Surveillance Audit** was conducted on November 8-12, 2021 and the certificate attesting that the University QMS conforms to the requirements of **ISO 9001:2015 (No. 20.67.PH112906.01)** was issued on November 29, 2021.



Program to Institutionalize Meritocracy and Excellence In Human Resource Management (PRIME-HRM)

To guarantee a dynamic work force and strong employee engagement it is imperative that human resource management must be motivating and encouraging. The university adheres to the Civil Service Commission's PRIME-HRM, a mechanism to continuously capacitate organizations in their performance of HRM functions; recognize best practices in various areas of HRM; and serve as a venue for exchange and development of expertise in HRM in the Philippine public service.

The University Human Resource Management underwent the three processes of PRIME-HRM. Firstly, CSC RO1 assessed the four systems: Recruitment, Selection, and Placement (RSP); Performance Management (PM); Learning and Development (L&D); and Rewards and Recognition (R&R). Then they assigned an assistor for the preparation and submission of evidence requirements before the final assessment was conducted.

As an affirmation of DMMMSU excellent systems in Rewards and Recognition (R&R) and Learning and Development (L&D), CSC conferred DMMMSU with Certificates of Recognition for the two systems. PRIME-HRM Recognition of DMMMSU Maturity Level II in R&R and L&D was conducted on November 15, 2021, and March 22, 2022, respectively.

Evidence requirements for the two (2) systems, RSP and PM will be submitted for evaluation this April and May 2022.





HRMOs and staff with Civil Service Commission RO1 and University Officials



CSC RO1 Officials led by Dir. Hedy Jose B. Lardizabal and DMNMSU Officials led by the University President, Dr. Jaime I. Manuel Jr.

DMMMSU houses **5** CENTERS OF DEVELOPMENT



Agriculture in NLUC

Teacher Education in NLUC

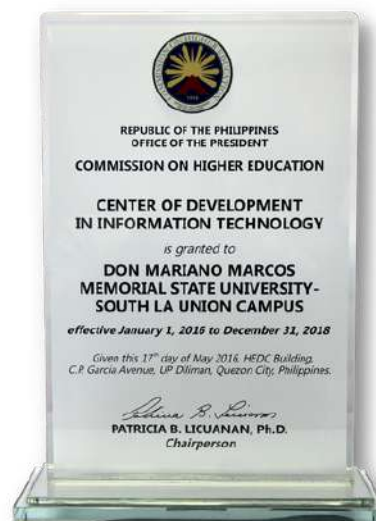
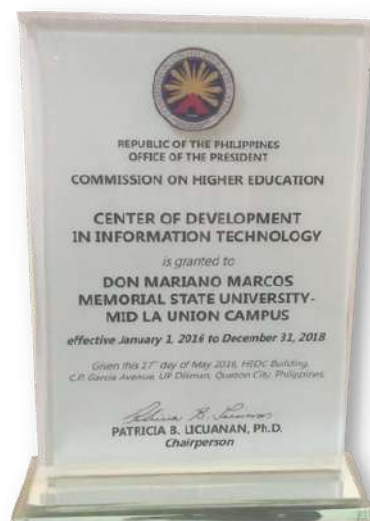


Information Technology Education in SLUC

Teacher Education in SLUC



Information Technology Education in MLUC



These Centers of Development are manifestations that DMMMSU continuously demonstrates excellent performance in the areas of instruction, research and publication, extension and linkages and institutional qualifications.

DMMMSU houses
2 PROVINCIAL
INSTITUTES



College of
Agriculture
NLUC



College of
Fisheries
SLUC

DMMMSU also keeps
2 TESDA Recognized
Assessment Centers



**Shielded Metal
Arc Welding NC II**

College of Technology, MLUC

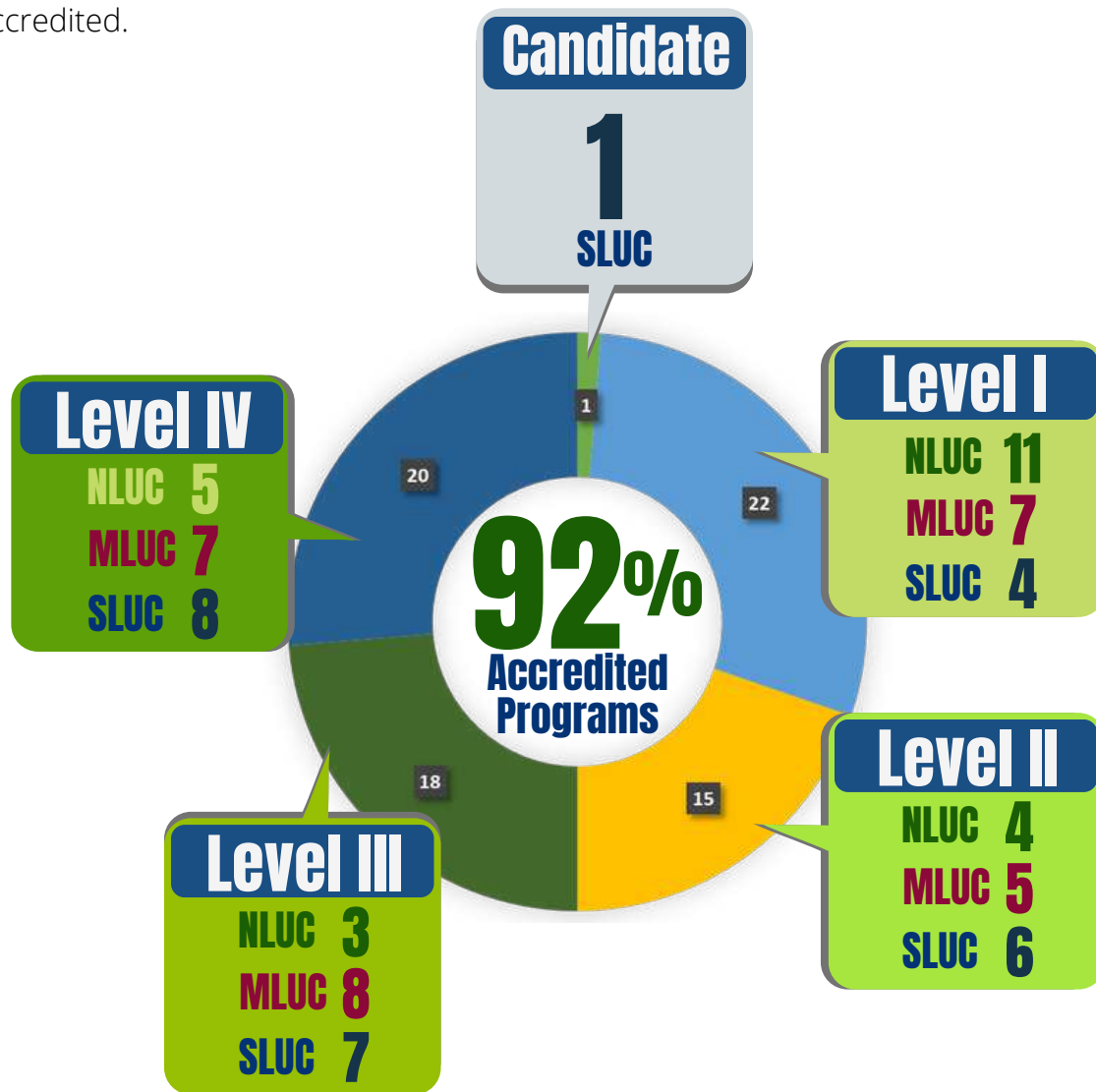
BS Electromechanical Technology

**Bread & Pastry
Production NCII**

BS Industrial Technology

Program Accreditation

As a manifestation of DMMMSU's commitment to ensuring quality in its program offerings, 92 percent of its accreditable programs have already been accredited by ACCUP. To date, 18 programs are Level III Re-accredited and 20 are Level IV Re-accredited.



20 as of 2022
Level IV
 Re-Accredited Programs

6 new **Level IV** Re-Accredited Programs in 2021

BS in Information Systems	- NLUC
BS in Environmental Science	- NLUC
BS in Business Administration	- MLUC
BS in Hospitality Management	- MLUC
Phd in Developmental Administration	- MLUC
MA in Developmental Administration major in Business Administration	- MLUC

Aside from being Top 1 in the Highest Number of Level IV Accredited Programs and Top 2 in the Highest Number of Level III Accredited Programs in 2020, DMMMSU was awarded by AACUP as Top 3 in the Highest Number of Level I Accredited Programs in 2021.

TOP 3 in the highest number
of **Level I Accredited**
Programs in **2021**

NORTH LA UNION CAMPUS



SECOND SURVEY VISIT

April 4-8, 2022

- **BS in Biology**
- **MS in Agronomy**
- **MS in Animal Science**
- **Ph.D. in Agronomy**
- **Ph.D. in Animal Science**

THIRD SURVEY VISIT

December 6-10, 2021

- **MS Rural Community Development**

FOURTH SURVEY VISIT

December 6-10, 2021

- **BS Agribusiness Management**
- **BS Agroforestry**



FIRST SURVEY VISIT

October 4-8, 2021

- **MS in Agroforestry**
- **MS in Agribusiness Management**
- **MA in Educational Management**
- **BA in English Language**



MID LA UNION CAMPUS



FOURTH SURVEY VISIT PHASE 1

December 13-18, 2021

- **BS Electrical Engineering**
- **BS Mechanical Engineering**

THIRD SURVEY VISIT PHASE 1

December 13-18, 2021

- **BS Electro-Mechanical Technology**
- **BS Textile and Garments Technology**
- **BS Food Technology**



FORTH SURVEY VISIT PHASE 2

December 6-8, 2021

- **Doctor of Philosophy in Development Administration**
- **Master in Development Administration**

FIRST SURVEY VISIT

October 4-8, 2021

- **BS in Psychology**
- **BA in English Language**
- **Batsilyer Ng Sining Sa Filipino**
- **BS in Criminology**



INSTRUCTION

SOUTH LA UNION CAMPUS

THIRD SURVEY VISIT PHASE II

December 6-8, 2021

➤ **BS in Nursing**

FIRST SURVEY VISIT

October 4-8, 2021

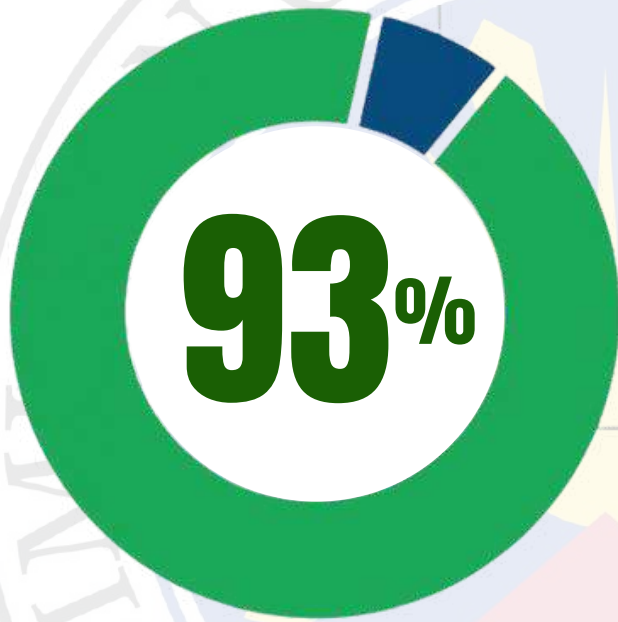
➤ **BA in English Language**

➤ **Batsilyer Ng Sining Sa Filipino**

➤ **MS in Biology**



Certificate of Program Compliance



52 out of 56 Undergraduate programs were granted

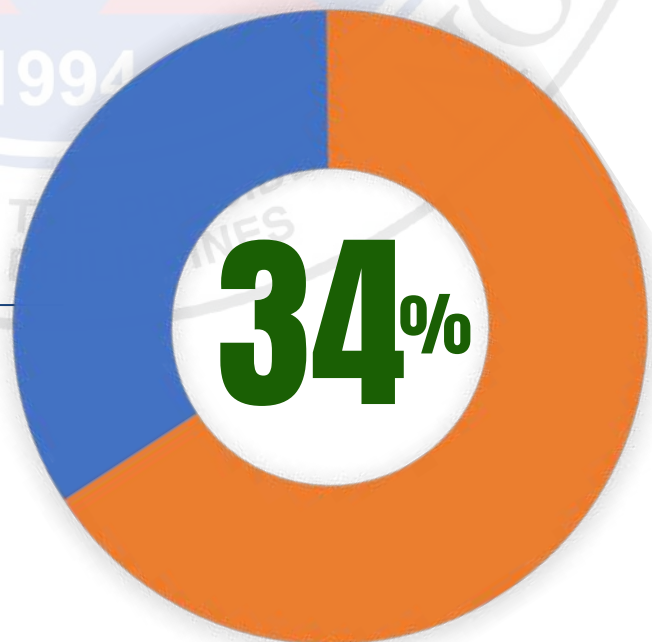
COPC

as of 2022 vs 73% in 2018

15 out of 44 Graduate programs were granted

COPC

as of 2022 vs 18% in 2018



INSTRUCTION



Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION
Regional Office 1
City of San Fernando, La Union

COPC No. 22
Series of 2021

SUBJECT: CERTIFICATE OF PROGRAM COMPLIANCE GRANTED TO DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY – MID LA UNION CAMPUS, CITY OF SAN FERNANDO, LA UNION TO OPERATE THE BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, EFFECTIVE ACADEMIC YEAR 2021-2022

In accordance with the pertinent provisions of Republic Act (RA) No. 7722, otherwise known as the "Higher Education Act of 1994," the Don Mariano Marcos Memorial State University – Mid La Union Campus, City of San Fernando, La Union, is hereby granted CERTIFICATE OF PROGRAM COMPLIANCE to operate the Bachelor of Science in Information Technology, effective Academic Year 2021-2022 per CMO 25, s. 2015 – "Revised Policies, Standards and Guidelines for Bachelor of Science in Computer Science (BSCS), Bachelor of Science in Information Systems (BSIS), and Bachelor of Science in Information Technology (BSIT) Programs."

This Certificate of Program Compliance shall be subject to revocation if the herein institution fails to operate in accordance with the laws of the Republic of the Philippines and/or fails to comply with the rules and regulations of the Commission on Higher Education pertaining to the organization, administration and supervision of State Universities and Colleges. The school authorities shall inform the Commission of any plan or action regarding closure or phasing out of the program or any change(s) in the prescribed requirements.

This Certificate of Program Compliance shall remain in force and in effect as long as the institution sustains the required standards as required by the specific CHED Memorandum Order governing the program and the budgetary allocations for its operations are provided for and maintained. Moreover, this certificate is revoked if there will be new issuances to cover the operation of this program. Furthermore, this does not extend to any campus of the institution, whether located in the same place or elsewhere.

Issued this 27th day of May 2021 at the City of San Fernando, La Union.

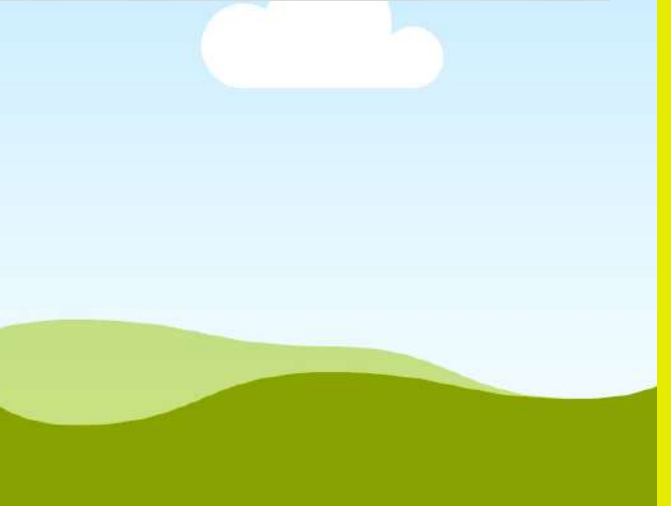
FOR THE COMMISSION:



SGD
ROGELIO T. GALERA, JR., PhD
Director IV



COLLEGE OF INFORMATION TECHNOLOGY
Bachelor of Science in Information Technology



New Academic Program and Initiatives Developed

College/Campus	Board Resolution	Date Approved
South La Union Campus <ul style="list-style-type: none"> Master of Science in Mathematics Program 	Resolution No. 2021-646	November 8, 2021
South La Union Campus <ul style="list-style-type: none"> Creation of College of Medicine and Doctor of Medicine Program 	Resolution No. 2021-647	November 8, 2021

Establishment of the College of Medicine

President Manuel has been working hard seeking funding for the establishment of the College of Medicine. Budget from GAA-Fund amounting to P281 million has already been allocated. Also, authority has been given by the BOR to President Manuel to sign the Memorandum of Agreement and Deed of Usufruct for the use of the 3-hectare land property from the Provincial Government of La Union. The property is located in Nazareno, Agoo, La Union beside the La Union Medical Center.

By 2030, this 3-hectare land area will have housed not only the College of Medicine but also the College of Community Health and Medical Allied Sciences as a realization of President Manuel’s plan to place medicine and medical allied programs in one compound.



Perspective of the College of Medicine

Establishment of the East La Union Campus

President Manuel also worked on the realization of the establishment of the East La Union Campus which temporarily serves as an extension of the Mid La Union Campus. This will house the Institute of Criminology and Justice Education. There is also a plan to locate related programs such as Bachelor's of Law and BS Political Science. DMMMSU and the Local Government of Naguilian forged an agreement for the establishment of DMMMSU's fourth campus which is to be called East La Union Campus. The MOA signing was held in Barangay Ortiz of Naguilian, La Union on November 25, 2021. Naguilian LGU donated an almost one-hectare land area for the new campus, 9816 sqms. (BOR Resolution No. 2021-642). President Manuel was also granted an authority to accept the Deed of Donation on behalf of DMMMSU Board of Regents (BOR Resolution No. 2021-642).



Perspective of the proposed Jurisprudence Building at the East La Union Campus

DEED OF DONATION

KNOW ALL MEN BY THESE PRESENTS:

This Deed of Donation is voluntarily executed by the **MUNICIPAL GOVERNMENT OF NAGUILIAN**, duly represented by the Municipal Mayor **Nieri T. Flores**, and hereinafter referred to as the **DONOR**; in favor of **DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY (DMMMSU)**, a public educational institution with principal office at Sapilang, Bacnotan, La Union, represented by the University President **Jaime I. Manuel, Jr.**, and hereinafter referred to as the **DONEE**.

WITNESSETH

That the **DONOR** is the owner of a parcel of land situated at Ortiz, Naguilian, La Union, covered by Tax Declaration No. 2009-11-0001-01039, and more particularly described as follows:

Boundaries:

North: SEC.013

East: SEC.013.02,ETC

Land Area: 9,840 sq.m

South: BRGY ROAD

West: SEC.002,SEC.019,ETC

That situated in the same parcel of land are the following buildings also owned by the **DONOR**, to wit:

Description	Area Covered	Tax Declaration Number
One-storey building	32 meters	2009-11-0001-01040
One-storey building	630 meters	2009-11-0001-01041

That in addition to the above-cited buildings, other structures were also constructed on the said parcel of land or lot including three (3) buildings which were already assessed and documents of ownership for the donor are being processed;

That, in furtherance of its commitment to provide quality education in the Province of La Union, and even the entire State, the **DONEE** manifested the establishment of its **EAST LA UNION CAMPUS (ELUC)** in the Municipality of Naguilian;

That recognizing the significance of the purpose of the **DONEE's** manifestation and the greater benefit it shall bring to the people of the Province of La Union, and even the whole of the State, the Sangguniang Bayan of Naguilian passed **RESOLUTION NO. 307, SERIES OF 2021** authorizing **Mayor Nieri T. Flores** to enter into a Deed of Donation representing the **DONOR**;

That for the same purpose, the **DMMMSU** Board of Regents passed **RESOLUTION NO. 2021-642** authorizing University President **Jaime I. Manuel, Jr.** to enter into a Deed of Donation representing the **DONEE**;

That for and in consideration of the above premises, the **DONOR** hereby voluntarily **GIVES, TRANSFERS, and CONVEYS** by way of donation, unto the said **DONEE** the

INSTRUCTION

above-described parcel of land with the five (5) buildings mentioned and other improvements found thereon, free from liens and encumbrances;
That the **DONOR** does not impose any other obligation upon the **DONEE** in consideration of this donation;

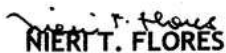
That the **DONOR** affirms that this donation is not made with intent to deceive creditors, and that has reserved for itself sufficient funds and property;

That the **DONEE** hereby accepts and receives this donation made in its favor by the **DONOR**, and hereby manifests its gratefulness for the latter's generosity.

IN WITNESS WHEREOF, both the **DONOR** and **DONEE** have hereunder subscribed their names this _____ at Naguilian, La Union, Philippines.

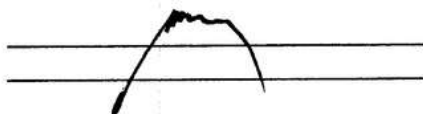
DONOR:
MUNICIPALITY OF NAGUILIAN

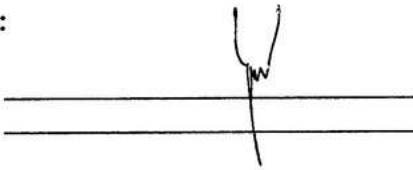
DONEE:
DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY


NIERI T. FLORES
Mayor


JAIME I. MANUEL, JR.
President

WITNESSES:





ACKNOWLEDGMENT

Republic of the Philippines)
Province of La Union) S.S.

BEFORE ME, a notary public for and in the Province of La Union, personally appeared:

NIERI T. FLORES
ID No. _____; Date of Issuance/Expiration: _____

JAIME I. MANUEL, JR.
ID No. _____; Date of Issuance/Expiration: _____

known to me and to me known to be the same persons who executed the foregoing Deed of Donation and acknowledged to me that the same is their free and voluntary act and deed.

WITNESS MY HAND AND SEAL, on the date and place first above written.

Doc. No. M ;
Page No. 24 ;
Book No. 5 ;
Series of 2021.

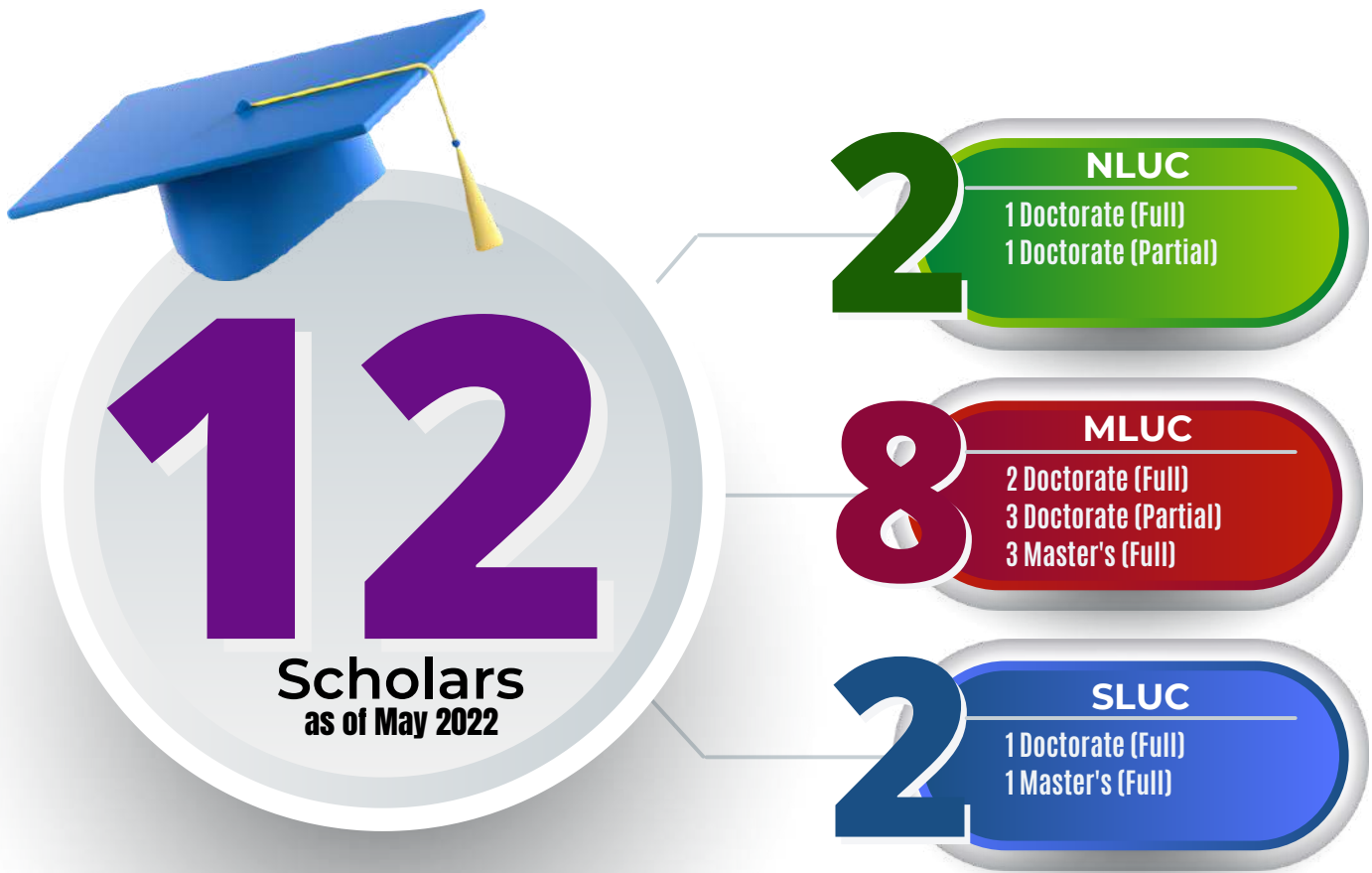

ATTY. KRISTINE GAY B. BALANAG
NOTARY PUBLIC
UNTIL DECEMBER 31, 2021
PIN No. 2411623
ROLL No. 593397BP No. 098082
TIN No. 933-042-706

In addition to the three school buildings included in the donation of the municipality of Naguilian for use of ELUC, the University will be constructing an 8.8 million-peso 2-storey building for the ICJE with more than 1.6 million – peso furnishings. This 10.4 million – peso fund was outsourced from the 2022 GAA Fund under ‘for release later’ (FLR).



Hon. Raphaelle Veronica "Rafy" Ortega David graces the MOA signing between DMMMSU and Naguilian LGU for the establishment of DMMMSU's East La Union Campus.

Faculty Scholars

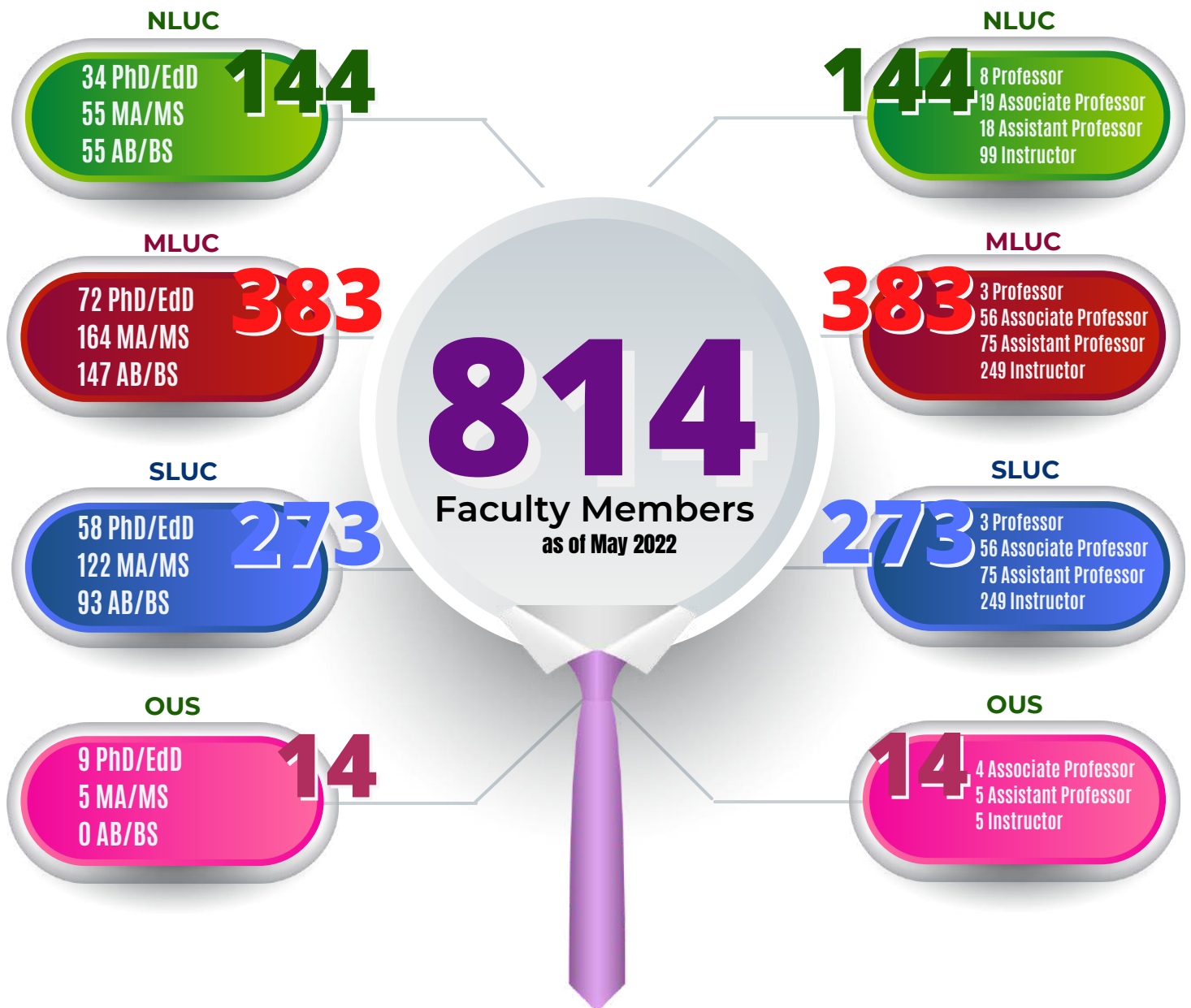


Faculty Profile

DMMMSU is a powerhouse of 814 Faculty Members who are capable of delivering quality content through effective platforms and pedagogies.

by Educational Attainment

by Academic Rank



Performance in Licensure Examinations

2021 Board Examinations

In 2021 board examinations, 77.78 percent of the programs garnered a passing rate above the national passing rate.

	DMMMSU Passing Rate	National Passing Rate	
NLUC	• Veterinary Medicine	66.67	38.33
	• Agricultural & Biosystems Engineering	100.00	36.45
	• Forester	0.00	58.21
	• Agriculturist	20.00	29.84
	• LET - Elementary	100.00	55.96
	• LET - Secondary	75.00	57.77


MLUC	• Mechanical Engineering	37.50	39.77
	• Electrical Engineering	77.78	68.48
	• Electrical Engineering	81.16	67.44
	• LET - Elementary	20.00	55.96
	• LET - Secondary	100.00	57.77

SLUC	• Fisheries Technologist	25.00	29.55
	• Agriculturist	51.28	29.84
	• Midwifery	61.90	51.27
	• LET - Elementary	64.71	55.96
	• LET - Secondary	66.04	57.77

OUS	• LET - Secondary	100.00	57.77
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2022 Board Examinations

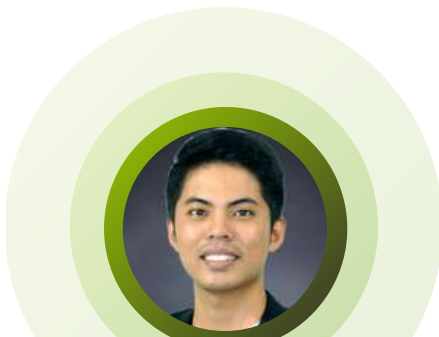
In the first quarter of 2022, the seven programs with board examinations all received a rating above the national passing rate..



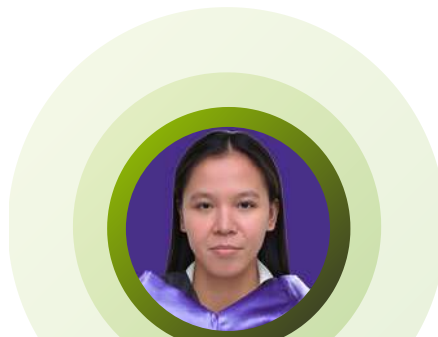
	DMMMSU Passing Rate	National Passing Rate
• Veterinary Medicine	66.67	38.33
• Mechanical Engineer	64.94	54.74
• Bar Exam	55.00	72.28
• Electrical Engineer	65.12	54.21
• Master Electrician	55.81	46.26
• Midwifery Licensure Examination	69.57	47.02
• LET Elementary	60.39	56.90
• Let Secondary	60.03	54.29

Board Topnotchers

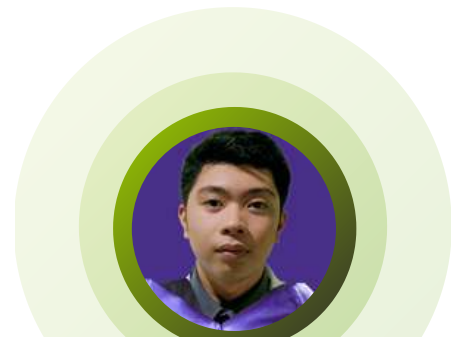
Because of its laudable programs, DMMMSU also produces topnotchers in the Board Examinations.



Bustamante F. Molina
8th Placer
Licensure Examination for Agriculturists
November 2021



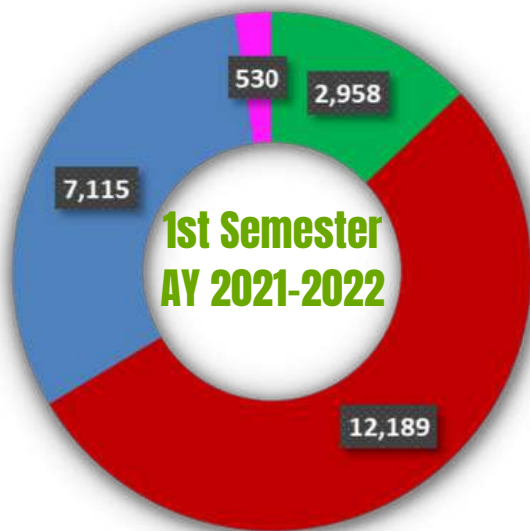
Monica E. Cacayan
5th Placer
Veterinary Medicine Licensure Examination
August and September 2021



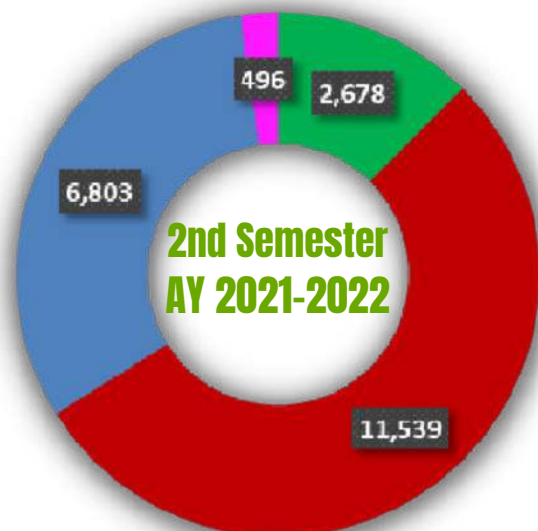
Denver G. Frigillana
9th Placer
Veterinary Medicine Licensure Examination
August and September 2021

Data on Enrolment/Graduate

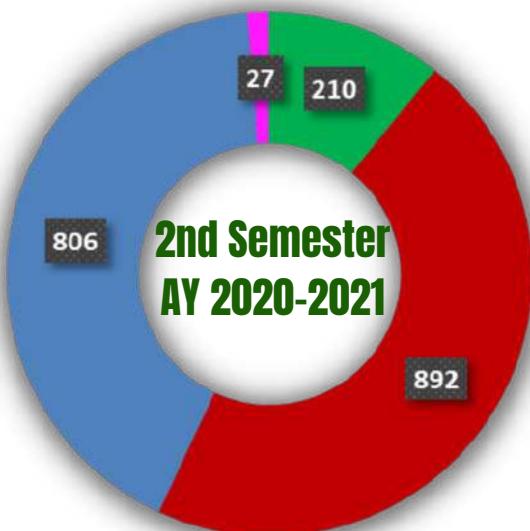
Despite the pandemic, DMMMSU has maintained a great number of enrollees. The graphs below show the summary of enrolment in four academic units.



22,792
ENROLLEES



21,516
ENROLLEES



1,935
GRADUATES

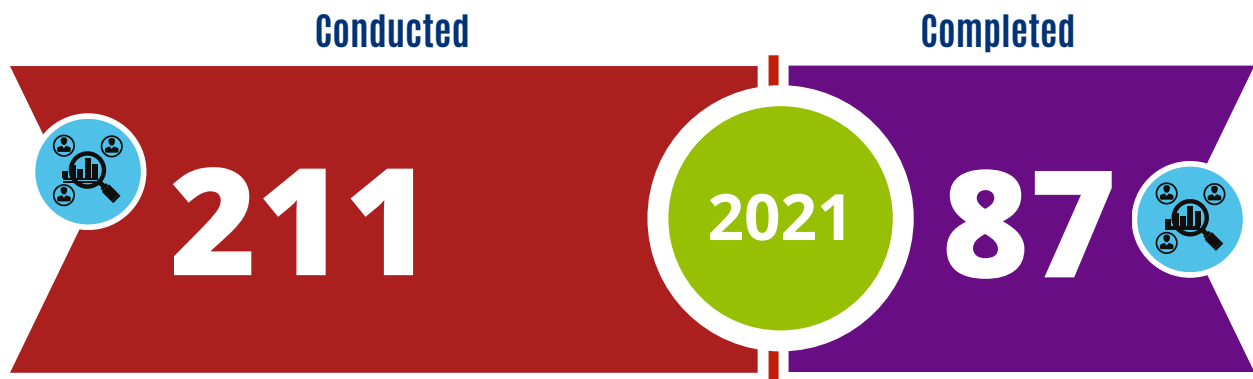


150
GRADUATES

Legend: ■ NLUC ■ MLUC ■ SLUC ■ OUS

Research Conducted/Completed

As can be seen from the graph, the number of research outputs (both internal and external) increased.



The number of research publications especially in Scopus and Web of Science indexed journals has increased and is being sustained. This is also attributed to the huge budget allotment and the implementation of increased incentives.



Recipients of Incentives in Researches/Creative Works

Publication Incentives

Date	NAME OF RESEARCHER	TITLE OF ARTICLE	PUBLISHER/ISSN	DATE PUBLISHED	PUBLICATION STATUS	AMOUNT
2022	Elizabeth P. Obra	Distribution, Diversity and roles of insects in mulberry plantation	Journal of Biodiversity and Environmental Sciences (JBES), ISSN 2220-6663 (Print) 2222-3045 (Online); Vol.20, No.1	January 2022 (Online)	Web of Science-indexed-Zoological Records; Impact Factor Not Applicable	30,000.00
2022	Mabel M. Caccam Roel D. Supsup Jaime I. Manuel, Jr. Josephine A. Guiner Evangel M. Barrameda	Improving mulberry (<i>Morus alba</i> L.) leaf yield, silkworm (<i>Bombyx mori</i> L.) cocoon yield and income using sustainable fertilizer management practices	Journal of Biodiversity and Environmental Sciences (JBES), ISSN 2220-6663 (Print) 2222-3045 (Online); Vol.20, No.2	Feb-22	Web of Science-indexed-Zoological Records; Impact Factor Not Applicable	30,000.00
2022	Conchita M. Almojuela Gemma E. Arellano Evangel M. Barrameda Roel D. Supsup	Improvement of silkworm (<i>Bombyx mori</i> L.) hybrids for cocoon and egg production using honey-enriched mulberry (<i>Morus alba</i> L.) leaves	Journal of Animal and Plant Sciences (JAPS), ISSN 1018 (Print) 2309-8694 (Online), Vol.32, No.4	January 2022 (Online)	Scopus-indexed-CiteScore= 1.1; Web of Science-indexed-IF=0.49	40,000.00
2021	Rosalinda L. Abad	Rice Machinery Requirement in La Union, Philippines: A Basis for Prioritizing Deployment	Recoletos Multidisciplinary Research Journal	2021	CHED-accredited	30,000.00
2021	Arnie G. Dizon	Content Analysis of the K to 12 Junior High School Geography Curriculum in the Philippines	International Research & Geographical Education	2021	Scopus Index impact factor 2.3 Published	40,000.00
2021	Eduard M. Albay, Delia N. Eisma	Performance task assessment Supported by the Design Thinking Process Results from a True Experimental Research	Social Sciences and Humanities Open	2021	Published (Science Direct)	30,000.00

Intellectual Property Incentives (Industrial Design and Utility Models)

YEAR	MAKER/S	UTILITY MODELS	DATE ISSUED	REGISTRATION NUMBER	AMOUNT
2021	Milagros S. Nillo Rubelyn V. Delfin Flory M. Libunao Cynthia M. Rodriguez	Hand Woven Silk Fabric (Suksul--DMMMSU-SRDI-PED7-MIRUB 19)	2021	3/2020000329	30,000.00
2021	Milagros S. Nillo Rubelyn V. Delfin Flory M. Libunao Cynthia M. Rodriguez	Hand Woven Silk Fabric (Suksul--DMMMSU-SRDI-PRD16-SINANTAO)	2021	3/2020/00032730	30,000.00
2021	Milagros S. Nillo Rubelyn V. Delfin Flory M. Libunao Cynthia M. Rodriguez	Hand Woven Silk Fabric (Suksul--DMMMSU-SRDI-PRD13-STRIPEDD19)	2021	3/2020/00032830	30,000.00
2021	Rossana P. Abat Imma Concepcion G. Estabillo Meryl A. Bernardino Sheila B. Alvarez	A Process of Producing Watermelon Jelly Candy	2021	2/2020/00022030	30,000.00
2021	Aurora P. Afalla	A Process of Producing Bangus Bone Powder for Foodstuffs	07-Aug-20	2/2020/00021430	30,000.00
2021	Aurora P. Afalla	A Composition of Bangus Bone Powder for Foodstuffs	07-Aug-20	2/2020/00021730	30,000.00
2021	Julieta D. Munar Aurora P. Afalla	A Process of Producing Pandesal Enriched with Bangus Bone Powder	07-Aug-20	2/2020/00021830	30,000.00
2021	Rishelle B. Nucaza	A Process of Producing Jackfruit (Artocarpus heterophyllus) Seed Jam	07-Aug-20	2/2020/00022330	30,000.00
2021	Genaro D. Omo Jaime I. Manuel, Jr.	A Process of Producing Sargassum Seaweed Organic Foliar Fertilizer	07-Aug-20	2/2020/00022530	30,000.00
2021	Anabella Valdez Mary Ann Orpilla	A Composition of Dehydrated Candied Mulberry	07-Aug-20	2/2020/00022630	30,000.00
2021	Arvin C. Tuyan David De Castro Arvin Sobrepeña	A Composition of Propolis Tincture as Antiseptic in Healing the Incised Wounds of Castrated Piglets	07-Aug-20	2/2020/00022930	30,000.00
2021	Julieta D. Munar Aurora P. Afalla	A Composition of Pandesal Enriched with Bangus Bone Powder	07-Aug-20	2/2020/00023030	30,000.00
2021	Anabella Valdez Mary Ann Orpilla	A Process of Producing Dehydrated-Candied Mulberry	07-Aug-20	2/2020/00023130	30,000.00
2021	Daniel Cantoria	A Process of Producing Pineapple-Squash Jam	07-Aug-20	2/2020/00023430	30,000.00

Citation Incentives

YEAR	MAKER/S UTILITY MODELS DATE ISSUED			REGISTRATION NUMBERAMOUNT					AMOUNT
	AUTHOR	ARTICLE TITLE	PUBLICATION JOURNAL INFORMATION	TITLE	AUTHOR	YEAR	JOURNAL	VOLUME, PAGES	
2022	Eduard M. Albay	Analyzing the effects of the problem-solving approach to the performance and attitude of first year university students	(2019) Social Sciences and Humanities Open, Vol.1(1), pp.1-7	Understanding Prospective Teachers' Task Design Considerations through the Lens of the Theory of Didactical Situations Open Access	Daher, W., Baya'a, N., Jaber, O.	2022	Mathematics	Vol.10(3), 417	1,500
2022	-do-	-do-	-do-	Classification of problem and solution strings in scientific texts: Evaluation of the effectiveness of machine learning classifiers and deep neural networks Open Access	Mishra, R.B., Jiang, H.	2021	Applied Sciences (Switzerland)	Vol.11 (21), 9997	1,500
2022	-do-	-do-	-do-	The relationship between achievement motivation, metacognitive awareness, attitudes and problem-solving abilities in students Open Access	Yunus, M., Setyosari, P., Utaya, S., (...), Amirullah, Rusdi, M.	2021	Cypriot Journal of Educational Sciences	Vol.16(1), pp.32-45	1,500
2022	-do-	-do-	-do-	Social and psychological attitudes of technical higher educational institution students Open Access	Beluzhenko, O., Popov, S., Kuren, S., Dontsov, N., Timofeev, S.	2020	E3S Web of Conferences	Vol.210, 17021	1,500
2022	-do-	-do-	-do-	Effectiveness of problem solving-based module to improve analytical thinking Open Access	Karenina, A., Widoretno, S., Prayitno, B.A.	2020	Journal of Physics: Conference Series	Vol.1511 (1), 012093	1,500
2022	Eduard M. Albay Delia V. Eisma	Performance task assessment supported by the design thinking process: Results from true experimental research	(2021) Social Sciences & Humanities Open, Vol.3(1)	Exploration of students' integrative skills developed in the design thinking of a Psychology course	Tsai, M.-F.	2021	Thinking Skills and Creativity	Vol.41, 100893	1,500
2022	-do-	-do-	-do-	Students' preference analysis on online learning attributes in industrial engineering education during the covid-19 pandemic: A conjoint analysis approach for sustainable industrial engineers	Ong, A.K.S., Prasetyo, Y.T., Young, M.N., (...), Nadlifatin, R., Redi, A.A.N.P.	2021	Sustainability (Switzerland)	13(15), 8339	1,500
2022	-do-	-do-	-do-	Effects of design thinking on artificial intelligence learning and creativity	Chang, Y.-S., Tsai, M.-C.	2021	Educational Studies (Article in Press)		1,500
2021	Mendoza, M.B., Ngilangil, L. and Vilar, D.A.	Groundwater and leachate quality assessment in Balaoan sanitary landfill in La Union, Northern Philippines	Chemical Engineering Transactions, 56, pp. 247-252	Development and application of conceptual framework model (CFM) for environmental risk assessment of contaminated lands Open access	Alam, A., Chaudhry, M.N., Mahmood, A., Ahmad, S.R., Butt, T.-E.	2021	Saudi Journal of Biological Sciences	Vol. 28(11), pp. 6167-6177	1,500
2021	-do-	-do-	-do-	Distribution and health risk assessment of trace elements in ground/surface water of Kot Addu, Punjab, Pakistan: a multivariate analysis	Abbas, Z., Imran, M., Natasha, N., (...), Ahmad, I., Ahmad, S.	2021	Environmental Monitoring and Assessment	Vol. 193(6), 351	1,500
2021	-do-	-do-	-do-	Geoelectrical Method for Detecting the Limit of Liquid Waste Flowing below the Surface at Piyungan Landfill Open Access	Jayadi, H., Muin, M.R., Sabhan, Meidji, I.U.	2021	Journal of Physics: Conference Series	Vol. 1763(1), 012040	1,500
2021	-do-	-do-	-do-	Integrated anaerobic-aerobic and wetland system for wastewater treatment and recycling in fish canning industry	Prihandrijanti, M., Marcos, K.J., Salim, C.	2021	Chemical Engineering Transactions	83, pp. 127-132	1,500
2021	-do-	-do-	-do-	Aspects influence leachate characteristics on leachate treatment plants in Temesi Landfill Gianyar Regency, Bali Province, Indonesia Open Access	Pradwi Sukma, A.P., Widiadnyana, W.M.	2020	E3S Web of Conferences	148, 05001	1,500

YEAR	MAKER/S UTILITY MODELS DATE ISSUED			REGISTRATION NUMBERAMOUNT					AMOUNT
	AUTHOR	ARTICLE TITLE	PUBLICATION JOURNAL INFORMATION	TITLE	AUTHOR	YEAR	JOURNAL	VOLUME, PAGES	
2021	Olarte E.I., Herrera A.A., Villasenor I.M., Jacinto S.D.	Antioxidant activity of a new indole alkaloid from <i>Cassia alata</i> L.	(2010) Philippine Agricultural Scientist, 93 (3), pp. 250-254.	Cyclotrisiloxan and beta-Sitosterol rich <i>Cassia alata</i> (L.) flower inhibits HT-115 human colon cancer cell growth via mitochondrial dependent apoptotic stimulation	Salamatullah, AM; Subash-Babu, P; (...); Alkaltham, MS	2021	SAUDI JOURNAL OF BIOLOGICAL SCIENCES	28 (10), pp.6009-6016	1,500
2021	Jacinto, SD; Olarte, El; (...); Pezzuto, JM	Leaf extract from <i>Cassia alata</i> L. ("Akapulko") induces quinone reductase and competes for estrogen receptor binding indicating cancer chemopreventive property	(2005) Philippine Agricultural Scientist, 88 (2), pp.175-178	Low cytotoxicity, and antiproliferative activity on cancer cells, of the plant <i>Senna alata</i> (Fabaceae)	Chahardehi, AM; Arsad, H; (...); Lim, V		REVISTA DE BIOLOGIA TROPICAL	69 (1), pp.317-330	1,500
2021	Cruz J.P., Aguinaldo A.N., Estacio J.C., Alotaibi A., Arguvanli S., Cayaban A.R.R., John Cecily H.S., (...), Sebaeng J.	A Multicountry Perspective on Cultural Competence Among Baccalaureate Nursing Students	2018, Journal of Nursing Scholarship, (1) 92-101	The role of self-efficacy in mediating between professional identity and self-reported competence among nursing students in the internship period: A quantitative study	Yao, X., Yu, L., Shen, Y., Kang, Z., Wang, X.	2021	Nurse Education in Practice	57, 103252	1,500
2021	-do-	-do-	-do-	The Influence of Training in Cross-Culturalism on Future Nurses: Can Education Change Prejudiced Attitudes Toward Migrants?	Sánchez-Ojeda, M.A., Fernández-Gómez, E., Ortiz-Gómez, M.D.M., Alemany-Arrebola, I.	2021	Journal of Transcultural Nursing	32(5), pp. 614-622	1,500
2021	-do-	-do-	-do-	Evaluating the effectiveness of cultural education training: Cultural competence and cultural intelligence development among nursing students Open Access	Majda, A., Zalewska-Puchala, J., Bodys-Cupak, I., Kurowska, A., Barzykowski, K.	2021	International Journal of Environmental Research and Public Health	18(8),4002	1,500
2021	-do-	-do-	-do-	Cultural competence among pre-graduate nursing students, new graduate nurses, nurse mentors, and registered nurses: A comparative descriptive study	Lin, H.-L., Guo, J.-L., Chen, H.-J., Li-Ling, L., Li-Chun, C.	2021	Nurse Education Today	97, 104701	1,500
2021	Olarte, E. I., Herrera, A. A., Villasenor, I. M. & Jacinto, S. D.	In vitro Antitumor properties of an isolate from leaves of <i>Cassia alata</i> L.	(2013) Asian Pacific Journal of Cancer Prevention, 14(5): pp. 3191-3196	Inhibitory effects on chondrosarcoma cell metastasis by <i>Senna alata</i> extract	Kittiwattanokhun, A., Samosorn, S., Innajak, S., Watanapokasin, R.	2021	Biomedicine and Pharmacotherapy	Vol. 137, pp.113-137	1,500
2021	-do-	-do-	-do-	Low toxicity and antiproliferative activity on cancer cells of the plant, <i>Senna alata</i> (Fabaceae) [Baja citotoxicidad y actividad antiproliferativa sobre las células cancerosas, de la planta <i>Senna alata</i> (Fabaceae)]	Chahardehi, A.M., Arsad, H., Ismail, N. Z., Lim, V.	2021	Revista de Biologia Tropical	Vol. 69(1), pp.317-330	1,500
2021	-do-	-do-	-do-	In vitro anti-proliferative effect of flavonoid extract of <i>Amaranthus viridis</i> (kolitis) leaves against MCF-7 breast adenocarcinoma cell line	Malicdem, A.C.M., Aducal, M.L.O., Cuasay, J.C. (...), Magbohos, C.R., Dumaoal, O.S.R.	2020	European Journal of Molecular and Clinical Medicine	Vol. 7(2), pp. 4129-4140	1,500
2021	-do-	-do-	-do-	Phytochemical screening and biological assays of ethanolic leaf extract of <i>Senna rugosa</i> Open Access	Cunha, L.F., Costa, C.M., Barrosa, P.R., (...), Ruela, F.A., Martins, H.R.	2020	Rodriguesia	Vol. 7, e00912019	1,500

Incentives for Winning Presentations

YEAR	TITLE OF AWARD	AWARDEE(S)	AWARD-GIVING INSTITUTION	EVENT	DATE	AMOUNT
2022	Best Paper: A Locus Classicus KAP (Knowledge -Attitudes-Practices) Study on Various Teaching Pedagogies by Educators of Elementary Northern Philippines	Jomar L. Aban	ASEAN Research Organization	4th Asian Virtual Conference on Institutional and Action Research 2022	January 20-22, 2022	20,000.00
2021	3rd place Poster Research Category: Improving Silk Yarn and Silk Fabric using Various Edible Oils as Pre-treatment Agents	Garizaldy G. Gaudia	ILAARRDEC	32nd ILAARRDEC Regional Symposium on R&D Highlights	March 16-17, 2021	1,000.00
2021	2nd Place Poster Development Category: Communities Understand and Respect (CURE) the Sea	Richard L. Rivera, Jaime I. Manuel Jr., Junifer Rey E. Tabafunda	ILAARRDEC	32nd ILAARRDEC Regional Symposium on R&D Highlights	March 16-17, 2021	2,000.00
2021	KALSA Award: "Most Distinguished Alumni in Bee Research and Development (Honey Production and Queen Rearing)	Joseph A. Panas	Benguet State University (BSU)	105th Founding Anniversary	9/30/2021	
2021	1st Place, Best Paper (DOST-PCAARRD-DMMMSU Agriculture, Aquaculture and Food Technology Business Incubator (Phase 1))	Victoria N. Malaya, Anabella G. Valdez, Cynthia M. Rodriguez, Jaime I. Manuel, Jr.,	ILAARRDEC	33RD ILAARRDEC Regional Symposium on R&D Highlights	December 1-2, 2021	5,000.00
2021	Aurora P. Afalla	Christine Joy R. Enriquez, Dianne A. Peralta, Joana Marie E. Abanes, Erlinda Q. Balancio	07-Aug-20	2/2020/000217	30,000.00	
2021	1st Place, Best Paper (DOST-PCAARRD-DMMMSU Agriculture, Aquaculture and Food Technology Business Incubator (Phase 1))	Victoria N. Malaya, Anabella G. Valdez, Cynthia M. Rodriguez, Jaime I. Manuel, Jr.,	Region 1 Agriculture and Fisheries Extension Network	7TH RAFEN 1 Symposium	November 25-26, 2021	5,000.00
2021	Outstanding Regional Partner (DOST-PCAARRD-DMMMSU Agriculture, Aquaculture and Food Technology Business Incubator (Phase 1))	Victoria N. Malaya, Anabella G. Valdez, Cynthia M. Rodriguez, Jaime I. Manuel, Jr.,	Department of Social Welfare and Development	Sulong Bayanihan 2021 - Isang Dekadang Pagsibol	November 25, 2021	
2021	Genaro D. Omo Jaime I. Manuel, Jr.	Christine Joy R. Enriquez, Dianne A. Peralta, Joana Marie E. Abanes, Erlinda Q. Balancio	07-Aug-20	2/2020/000225	30,000.00	
2021	1st Place Oral Research Category	Marilou P. Lucas, Cynthia M. Rodriguez, Jeremy Christian Santiago, Bella C. Gervacio et al.	ILAARRDEC	33RD ILAARRDEC Regional Symposium on R&D Highlights	December 1-2, 2021	5,000.00

YEAR	TITLE OF AWARD	AWARDEE(S)	AWARD-GIVING INSTITUTION	EVENT	DATE	AMOUNT
2021	Sustainable Production, Utilization, and Marketing of True-to-Type Bolinao Chicken in Ilocos Region	A Composition of Propolis Tincture as Antiseptic in Healing the Incised Wounds of Castrated Piglets	07-Aug-20	2/2020/000229	30,000.00	
2021	3rd place Poster Development Category: Serikultura: Kaagapay sa Panahon ng Pandemya	Conchita M. Almojuela, Mabel M. Caccam, Leonora P. Apilado, Edwina V. Garcia, Romualdo V. Pascua, Gerardo P. Dacayanan, Jaime R. Galiste, Glen M. Peralta	ILAARRDEC	33RD ILAARRDEC Regional Symposium on R&D Highlights	December 1-2, 2021	1,000.00
2021	2nd Place Best Research Paper: Development of Mobile Application-Based Learning Module for Electrical System Design	Alliver B. Sapitula	ICHEMEST	1st Virtual International Conference on Humanities, Education, Sciences, Management, Engineering and Technology 2021	November 25-27, 2021	15,000.00
2021	Top 1 Outstanding Research Paper: Initiatives and Mechanism Towards Culture of Quality Innovation and Management	Christian T. Montemayor	International Conference on Humanities, Education, Sciences, Management, Engineering and Technology	1st Virtual International Conference on Humanities, Education, Sciences, Management, Engineering and Technology 2021	November 25-26, 2021	20,000.00
2021	1st Place Best Paper Presenter	Christian T. Montemayor	International Conference on Humanities, Education, Sciences, Management, Engineering and Technology	1st Virtual International Conference on Humanities, Education, Sciences, Management, Engineering and Technology 2021	November 25-26, 2021	
2021	Best Paper Award	Jomar L. Aban	International Conference on Innovative Research Across Disciplines	4th International Conference on Innovative Research Across Disciplines	November 2-3, 2021	20,000.00

Incentives for Utility Models

YEAR	MAKER/S UTILITY MODELS DATE ISSUED			REGISTRATION NUMBERAMOUNT					AMOUNT
	AUTHOR	ARTICLE TITLE	PUBLICATION JOURNAL INFORMATION	TITLE	AUTHOR	YEAR	JOURNAL	VOLUME, PAGES	
2021	-do-	-do-	-do-	Chemical constituents, usage and pharmacological activity of <i>Cassia alata</i> Open Access	Fatmawati, S., Yuliana, Purnomo, A.S., Abu Bakar, M.F.	2020	Heliyon	Vol. 6(7), e04396	1,500
2021	-do-	-do-	-do-	The phytochemical content and the in vitro antifungal properties of <i>Senna alata</i> L. Roxb: A Review	Legaspi, C.L.B., Maramba-Lazarte, C.C.	2020	Acta Medica Philippina	Vol. 54(1), pp. 86-93	1,500
2021	-do-	-do-	-do-	Screening for secondary metabolites in Sri Lankan medicinal plants by microfractionation and targeted isolation of antimicrobial flavonoids from <i>Derris scandens</i> Open Access	Mohotti, S., Rajendran, S., Muhammad, T., (...), Hettiarachchi, C.M., Gunasekera, S.	2020	Journal of Ethnopharmacology	Vol. 246, 112158	1,500
2021	Olarte, E. I., Herrera, A. A., Villasenor, I. M. & Jacinto, S. D.	Antioxidant activity of a new indole alkaloid from <i>Cassia alata</i> L.	(2010) Philippine Agricultural Scientist, 93(3), pp.250-254	Low toxicity and antiproliferative activity on cancer cells of the plant, <i>Senna alata</i> (Fabaceae) [Baja citotoxicidad y actividad antiproliferativa sobre las células cancerosas, de la planta <i>Senna alata</i> (Fabaceae)] Open Access	Chahardehi, A.M., Arsad, H., Ismail, N. Z., Lim, V.	2021	Revista de Biología Tropical	Vol. 69(1), pp.317-330	1,500
2021	Llarenas, A. T.	Vignettes of experiences in portfolio assessment	(2019) Asian EFL Journal, (2) 196-223	Enhancing language assessment skills through need-based training for faculty members in EFL tertiary contexts Open Access	Nazim, M., Hazaea, A.N.	2020	Journal of Language and Education	Vol. 6(4), pp. 138-152	1,500
2021	Ngilangil, L. and Quinquito, J.	Effectiveness of vetiver (<i>vetiver zizanioides</i>) in purifying wastewater from pig farm	(2020) Chemical Engineering Transactions, 78, pp. 259-264	Integrated anaerobic-aerobic and wetland system for wastewater treatment and recycling in fish canning industry	Prihandrijanti, M., Marcos, K. J.,	2021	Chemical Engineering Transactions	Vol. 83, pp. 127-132	1,500
2021	Vilar D.A., Ngilangil L.E., Andrada J.C., Lucena J.J.	"Bantay Tambutso" project implementation for reducing air pollution: The DMMSU-NLUC, Philippines experience	(2018) Chemical Engineering Transactions, 63, pp. 97-102.	Geoelectrical method for detecting the limit of waste flowing below the surface at Piyungan Landfill Open Access	Jayadi, H., Muin, M. R., Sabhan, Meidji, I. U.	2021	Journal of Physics: Conference Series	Vol. 1763(1), 021040	1,500
2021	Cruz J.P., Aguinaldo A.N., Estacio J.C., Alotaibi A., Arguvanli S., Cayaban A.R.R., John Cecily H.S., (...), Sebaeng J.	A Multicountry Perspective on Cultural Competence Among Baccalaureate Nursing Students	(2018) Journal of Nursing Scholarship, 50(1), pp. 92-101.	European intensive care nurses' cultural competency: An international cross-sectional survey	Dobrowolska, B., Gutysz-Wojnicka, A., Ozga, D., (...), Zelenikova, R., Blackwood, B.	2020	Intensive and Critical Care Nursing	Vol. 60, 102892	1,500
2021	-do-	-do-	-do-	Religious coping of selected Filipino Catholic youth Open Access	Del Castillo, F., Alino, M.A.	2020	Religions	Vol. 11(9), 462, pp. 1-12	1,500
2021	-do-	-do-	-do-	School nurses self-assessed cultural competence when encountering children of foreign origin: A cross-sectional study	Wahlstrom, E., Harder, M., Granlund, M., (...), Larm, P., Golsater, M.	2020	Nursing and Health Sciences	Vol. 22(2), pp. 226-234	1,500

YEAR	MAKER/S UTILITY MODELS DATE ISSUED			REGISTRATION NUMBERAMOUNT					AMOUNT
	AUTHOR	ARTICLE TITLE	PUBLICATION	TITLE	AUTHOR	YEAR	JOURNAL	VOLUME, PAGES	
2021	-do-	-do-	-do-	Effects of cultural competence education programme on clinical nurses: A randomized controlled trial	Lin, M.-H. Hsu, H.-C. Today	2020	Nurse Education Today	Vol. 88, 104385	1,500
2021	-do-	-do-	-do-	Evaluation of a nurse-led education program to improve cross-cultural care for older people in aged care	Xiao, L.D. Ullah, S. Morey, W., Harrington, A. Gillham, D.	2020	Nurse Education Today	Vol. 87, 104356	1,500
2021	-do-	-do-	-do-	Integrating Competency-Based Didactic and Experiential Global Health Learning for Dental Students: The Global Health Learning Helix Model	Yu, A. Lambert, R.F., Alvarado, J.A. Guzman, C.A.F., Seymour, B.	2020	Journal of Dental Education	Vol. 84(4), pp. 438-448	1,500
2021	-do-	-do-	-do-	Investigating intercultural electiveness of paediatric nurses in a Turkish hospital	Yılmaz, M. Sari, H.Y. Ünlü, M. Yetim, P	2020	British Journal of Nursing	Vol. 29(3), pp. 152-158	1,500
2021	-do-	-do-	-do-	The need for cultural competence education in nursing degree programmes: Comparative perspectives I [Potřeba edukace v oblasti kulturní kompetence v oboru ošetrovatelství: Komparativní perspektivy]	Prosen, M. Bošković, S.	2020	Kontakt	Vol. 22(3), pp. 139-145	1,500
2021	-do-	-do-	-do-	The Influence of Training in Cross-Culturalism on Future Nurses: Can Education Change Prejudiced Attitudes Toward Migrants?	Sánchez-Ojeda, M.A. Fernández-Gómez, E. Ortiz-Gómez. M.D.M. Alemany-Arrebola, I.	2020	Journal of Transcultural Nursing	Article in Press	1,500
2021	-do-	-do-	-do-	Causal model of cultural competence and behavior among nurses in Thailand's international hospitals	Khongsamai, T., Intarakamhang, U.	2020	Journal of Behavioral Science	Vol. 15(2), pp. 54-69	1,500
2021	-do-	-do-	-do-	The effect of ethnocentrism and moral sensitivity on intercultural sensitivity in nursing students, descriptive cross-sectional research study	Kaya, Y. Arslan, S. Erbaş, A. Yaşar, B.N., Küçükkeleşçe, G.E.	2021	Nurse Education Today	Vol. 100, 104867	1,500
2021	-do-	-do-	-do-	Evaluating the effectiveness of cultural education training: Cultural competence and cultural intelligence development among nursing students	Majda, A. ZalewskaPuchala, J. Bodys-Cupak, I. Kurowska, A. Barzykowski, K.	2021	International Journal of Environmental Research and Public Health	Vol. 18(8), 4002	1,500
2021	-do-	-do-	-do-	Influence of Spiritual Coping and Social Support on the Mental Health and Quality of Life of the Saudi Informal Caregivers of Patients with Stroke	Alquwez, N. Alshahrani, A.M	2021	Journal of Religion and Health	Vol. 60(2), pp. 787-803	1,500
2021	-do-	-do-	-do-	Cultural competence among pre-graduate nursing students, new graduate nurses, nurse mentors and registered nurses: A comparative descriptive study	Lin, H.-L. Guo, J.-L. Chen, H.-J. Li-Ling, L., Li-Chun, C.	2021	Journal of Religion and Health	Vol. 97, 104701	1,500
2021	-do-	-do-	-do-	Cultural sensitivity and attitudes towards refugees of Turkish nursing students: A cross-sectional descriptive study	Kuru Alici, N	2021	International Journal of Intercultural Relations	Vol. 80, pp.1-6	1,500
2021	-do-	-do-	-do-	Intercultural readiness of nursing students: An integrative review of evidence examining cultural competence educational interventions	O'Brien, E.-M., O'Donnel, C., Murphy, J., O'Brien, B., Markey, K.	2021	Nurse Education in Practice	Vol. 50, 102966	1,500

Publication Incentives (Laptops)

YEAR	NAME OF RESEARCHER	TITLE OF PROJECT	AMOUNT GRANT	INCENTIVE
2021	Rubelyn Delfin	Enhancing Technology Transfer through IP-TBM in Don Mariano Marcos Memorial State University (DMMMSU)	470,147.38	1,410.44
2021	Sheena I. Sapuay	Prescriptive Navigation through Vision-based Traffic Monitoring for City of San Fernando, La Union	999,800.00	2,999.40
2021	Cynthia M. Rodriguez	Midterm Impact Assessment Study of Special Area for Agricultural Development (SAAD) Program	4,341,118.74	13,023.36
2021	Raffy M. Espiritu	Creation of FMR Network Plan in Region I and Formulation of Draft FMRDP Strategic Plan 2021		0.00
2021	Fe M. Camalig	Establishment of ASF Diagnostic Laboratory in the College of Veterinary Medicine, DMMMSU-NLUC, Bacnotan, La Union	5,100,000.00	15,300.00
2021	Victoria N. Malaya	Enhancing for Agri-Aqua Food Value Chain Through Smart Technologies and Partnership Towards Food Resiliency in the New Normal Region 1	2,999,945.20	8,999.84
2021	Lilito O. Gavina	Enhancing Racopor's Farm for Science for the Convergence of Agricultural Tourism (SCICAT) Farm Development in La Union (DOST-PCAARRD)	614,720.28	1,844.16
2021	Rosalinda Abad	Development of Pilot Testing of Hand Tractor Driven Onion Harvester (DOST-PCAARRD)	1,744,901.00	5,234.70
2021	Karen A. Ballada	Production of Seaweed Handsoap (CHED)	760,237.80	2,280.70
2021	Chester S. Libong	Swine Multiplier and Techno Demo Farm (DA)	10,000,000.00	20,000.00
2021	Dean Aldrene O. Badua	Coastal Engineering and Management Research and Development Center (Coaster) (DOST-PCAARRD)	2,847,519.92	8,542.50
2021	Raffy M. Espiritu	Characterization of Anthocyanins from Purple Yam (Ube) and Purple Corn for Nutraceutical and Food Products Formulations (USAID STRIDE)	1,116,563.00	3,349.69
2021	Raffy Espiritu	Characterization of Anthocyanins from Purple Yam (ube) and Purple Corn for Nutraceutical and Food Products Formulations (USAID-STRIDE)	669,937.80	2,009.81

Awarding of Laptops and Cash Incentives for Journal Publication



Awarding of Cash Incentives for IP Registration



Awards in researches/creative work

Because the pillars for quality research culture have been established, and a better ecosystem implemented and sustained, faculty members and non teaching personnel have consistently been receiving accolades, both local and international.



Joel C. Estacio
Best Performing Individual in Health Research in
Region 1



Jomar L. aban
Best Paper, Author Citation, and Best Oral
Presentation
4th Asian Virtual Conference on Institutional Action
Research (ACIAR 2022)

RESEARCH



Victoria N. Malaya
Best Paper
ILAARDEC 33rd Regional Symposium on R&D Highlights
and 7th RAFEN 1 Symposium



Precelita L. Osillos
Best Research Presenter
International Research Conference on Higher Education
(IRCHE) 2021



Christian T. Montemayor
Top 1 Outstanding Research Paper
1st Place Best Research Paper
1st Virtual International Conference on Humanities,
Education, Sciences, Management, Engineering, and
Technology (ICHESMET) 2021.



Alliver B. Sapitula
2nd Place - Best Research Paper
1st Virtual International Conference on Humanities,
Education, Sciences, Management, Engineering, and
Technology (ICHESMET) 2021.



Jomar L. Aban

Best Paper

4th International Conference on Innovative Research
Across Disciplines (ICIRAD) 2021



Arnie G. Dizon

Best Presenter

4th International Conference on Innovative Research
Across Disciplines (ICIRAD) 2021



Stephan Kupsch

Best Presenter

4th International Conference on Innovative Research
Across Disciplines (ICIRAD) 2021



Celso H. Jucutan

Best Presenter

4th International Conference on Innovative Research
Across Disciplines (ICIRAD) 2021

Co-hosting of International Research Conferences

DMMSU also co-organized international conferences: 1st International Conference in Information and Computing Research on December 11 and 12, 2021 with National University-Manila, and 4th International Conference on Innovative Research Across Disciplines on November 2 and 3, 2021 with the Research and Community Service Institute of Universitas Pendidikan Ganesha (UNDIKSHA) in Indonesia.





Kampus Merdeka INDONESIA JAYA

IQRAD The 4th International Conference on Innovative Research Across Disciplines

ENHANCING SUSTAINABLE DEVELOPMENT THROUGH INNOVATION AND CREATIVITY

KEYNOTE SPEAKERS

Speaker I
Dr. Abrahamson, Ph.D.
University of California (USA)

Speaker II
Dr. Gede Rusben Bantus
Universitas Pendidikan Ganesha

Speaker III
Dr. Nora A. Oredina
Don Mariano Marcos Memorial State University

INVITED SPEAKERS

Speaker I
Dewi A. Radna Putri, M.A., Ph.D.
Universitas Tersebut

Speaker II
Prof. Dr. Mahmod Djolijanto, dr.
SoPDR, MHA, MBA

THE FOLLOWING TOPICS

- ✓ Mathematics and natural sciences
- ✓ Health Sciences and Medicine
- ✓ Language Education
- ✓ Primary teachers education
- ✓ Educational Technology
- ✓ Vocational education and training
- ✓ Fine arts and visual design
- ✓ Psychology
- ✓ Sport science and physical education

IMPORTANT DATE

October 3rd 2021
Full Paper Submission Deadline

October 6th 2021
Notification of Acceptance

October 15th 2021
Camera Ready Paper and Payment Deadline

November 2nd 2021 - November 3rd 2021
Conference Day

2nd - 3rd November 2021
in Virtual Conference Format

Conference Fee

GENERAL PRESENTERS	STUDENT	PARTICIPANTS
IDR 1.500.000 / USD 105	IDR 1.200.000 / USD 85	IDR 200.000
<small>1) Regular Paper Presenter including publication fee</small>	<small>Student (Indiksha / MMSU) Presidents 1) including Publication Fee</small>	<small>1) Participant Non-Presenter</small>

Conference Organizers

**INSITUTE FOR RESEARCH AND COMMUNITY SERVICES
UNIVERSITAS PENDIDIKAN GANESHA**
Sali - Indonesia

in partnership with

DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY
La Union - Philippines

Contact Person

<p>Rudi Committee ☎ + 6281 236827247 ✉ rudi.jwaniyoh@undiksha.ac.id</p>	<p>Puteri Committee ☎ + 6281 805532962 ✉ ayu.puteri@undiksha.ac.id</p>	<p>Agus IT Support ☎ + 6281936393537 ✉ agus.sepiroh@undiksha.ac.id</p>	<p>Jude IT Support ☎ + 6281 13807266 ✉ jude.joskar@undiksha.ac.id</p>
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Payment Information

Please do bank transfer for the registration fee to:

- ✓ Bank Name : Bank Negara Indonesia (BNI)
- ✓ Account Number : 0814781304
- ✓ Account Holder : Ketut Widayanti

* (IMPORTANT)
After making the payment, author MUST upload the transfer proof via this website

Outsourcing of Funds

Still another major accomplishment in research is the outsourcing of funds for research and development projects. Overall, DMMMSU was able to outsource 161 million pesos for research and development projects.

DMMMSU
Research and Extension

Characterization of Anthocyanins from Purple Yam (ube) and Purple Corn for Nutraceutical and Food Products Formulations

2021 - 1,786,500.80

Funded by
USAID and RTICED



DMMMSU
Research and Extension

Creation of FMR Network Plan in Region I and Formulation of Draft FMRDP Strategic Plan 2021

2021 - 3,048,000.00

Funded by
DA-BAFE



DMMMSU
Research and Extension

**Development of
Pilot Testing of
Hand Tractor
Driven Onion
Harvester**

Funded by
**DOST-
PCAARRD**

2021 - 1,744,907.00



DMMMSU
Research and Extension

**Development of
Science-Based
Engineering
Approach to
Coastal Protection
in Region I**

Funded by
**DOST-
PCIEERRD**

2021 - 2,847,519.92



DMMMSU
Research and Extension

Enhancing and Sustaining Production of Garlic through Tissue-Culture Derived Planting Materials

2021 - 4,200,000.00

Funded by

DA-BPI



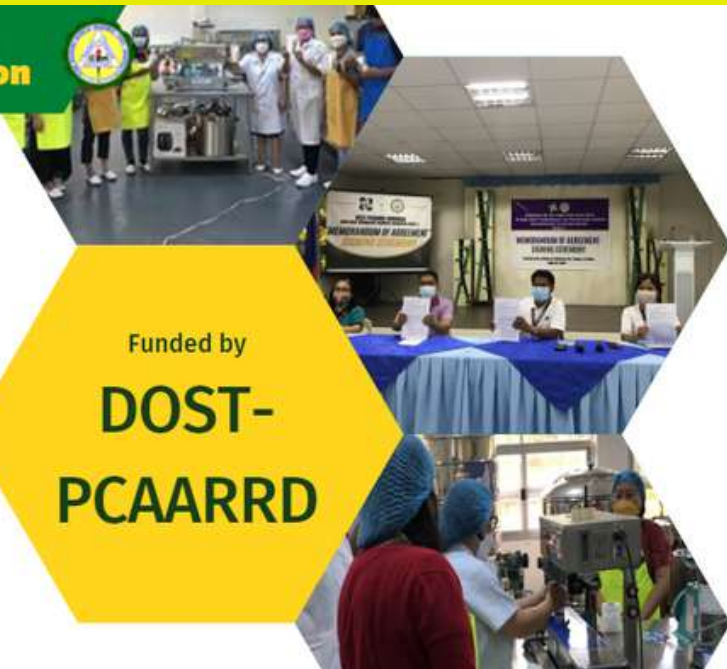
DMMMSU
Research and Extension

Enhancing for Agri-Aqua Food Value Chain Through Smart Technologies and Partnership Towards Food Resiliency in the New Normal Region 1

2021 - 2,999,945.20

Funded by

**DOST-
PCAARRD**



DMMMSU
Research and Extension

Enhancing Rocapor's Farm for Science for the Convergence of Agriculture and Tourism (SciCat) Farm Development in La Union

2021 - 614,720.28

Funded by
**DOST-
PCAARRD**



DMMMSU
Research and Extension

Enhancing Technology Transfer through Intellectual Property and Technology Business Management (IP-TBM) in DMMMSU

2021 - 614,511.31

Funded by
**DOST-
PCAARRD**



DMMMSU
Research and Extension



Establishment of
ASF Diagnostic
Laboratory in the
College of
Veterinary
Medicine,
DMMMSU-NLUC,
Bacnotan, La
Union

2021 - 5,100,000.00



Funded by

DA-BAI

DMMMSU
Research and Extension



Metals Industry
Research and
Development Center
Providing Machines,
Equipment, Tools,
Materials, and
Training for
DMMMSU's Metals
and Engineering
Innovation Center

2021 - 10,000,000.00



Funded by

**DOST-
MIRDC**

RESEARCH

DMMMSU **Research and Extension**

**Midterm Impact
Assessment Study of
Special Area for
Agricultural
Development (SAAD)
Program**

Funded by
DA-SAAD

2021 - 4,341,118.74



DMMMSU **Research and Extension**

**National Livestock
through ATI-RTC I
for the DMMMSU
Swine Multiplier and
Techno Demo Farm**

Funded by
DA

2021 - 10,000,000.00



DMMMSU
Research and Extension

**Prescriptive
Navigation through
Vision-based Traffic
Monitoring for City
of San Fernando, La
Union**

Funded by
**DOST-
PCIEERD**

2021 - 999,800.00



DMMMSU
Research and Extension

**The Interface of
Iloko-Igorot
Cultures in the Tri-
Boundary of La
Union, Ilocos Sur,
and Benguet**

Funded by
CHED

2021 - 4,000,000.00

Program Launch and Inception Meeting of the INDIG
KNOWLEDGE SYSTEM AND CULTURAL MANAGEMENT
PROGRAM of the PhiCanEDUCON MAGIC 7 Consortium

Members of the Consortium:

1. University of Saskatchewan, Canada
2. Benguet State University
- Central Luzon State University
- Central Mindanao University
- Don Mariano Marcos Memorial State University
- Don Mariano Marcos Memorial State University
- Mountain Province State Polytechnic College
- University of Southeastern Philippines



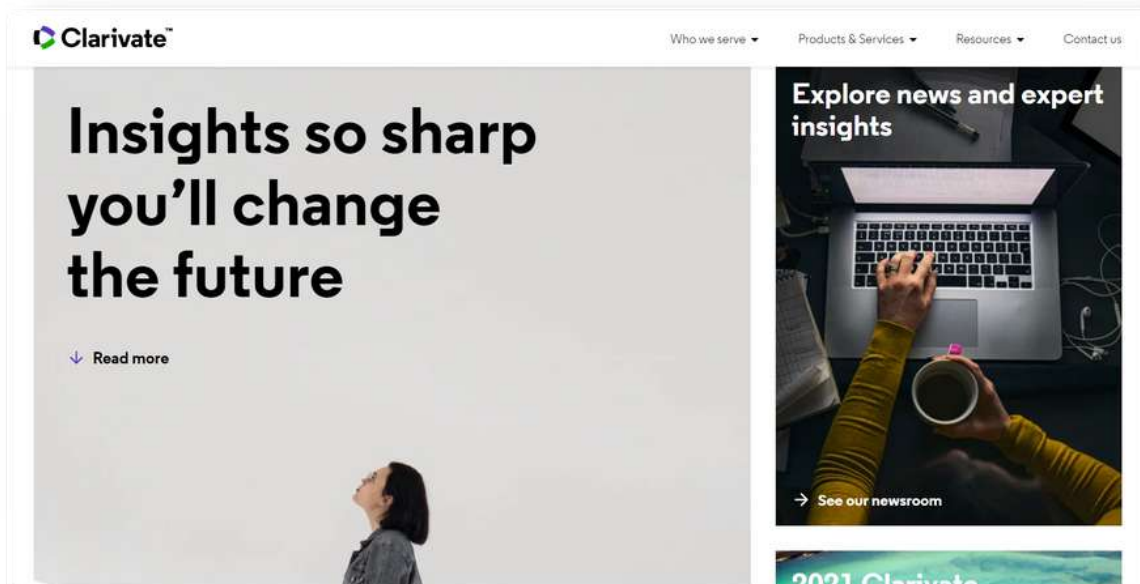
Republic of the Philippines
DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY
OPEN UNIVERSITY SYSTEM
San Fernando City, La Union, 2900 Philippines
Telephone No. (072) 242-3608 / 607-5343 / 607-8324

Program Launch and Inception Meeting of the INDIG
KNOWLEDGE SYSTEM AND CULTURAL MANAGEMENT
PROGRAM of the PhiCanEDUCON MAGIC 7 Consortium

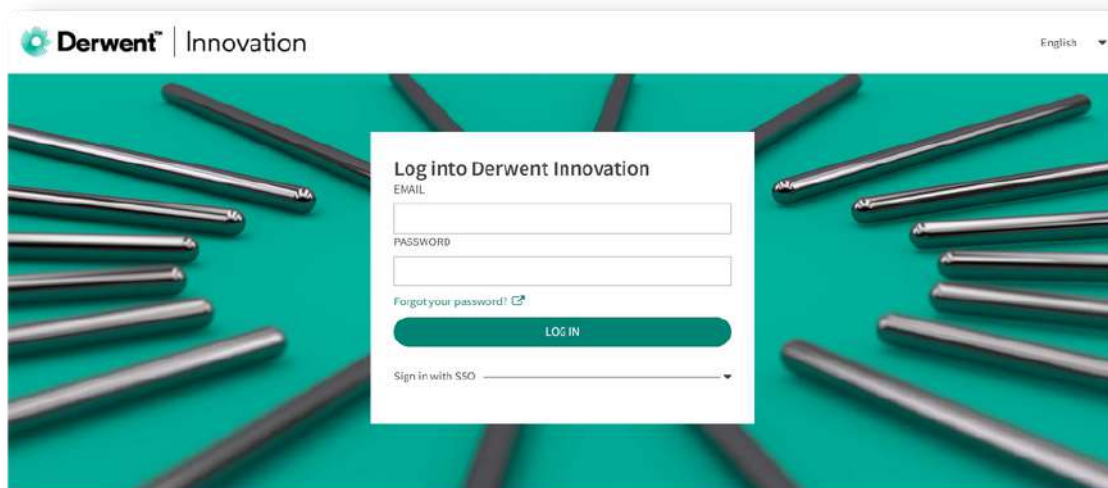
August 19, 2021
Zoom

Research Software and Subscriptions

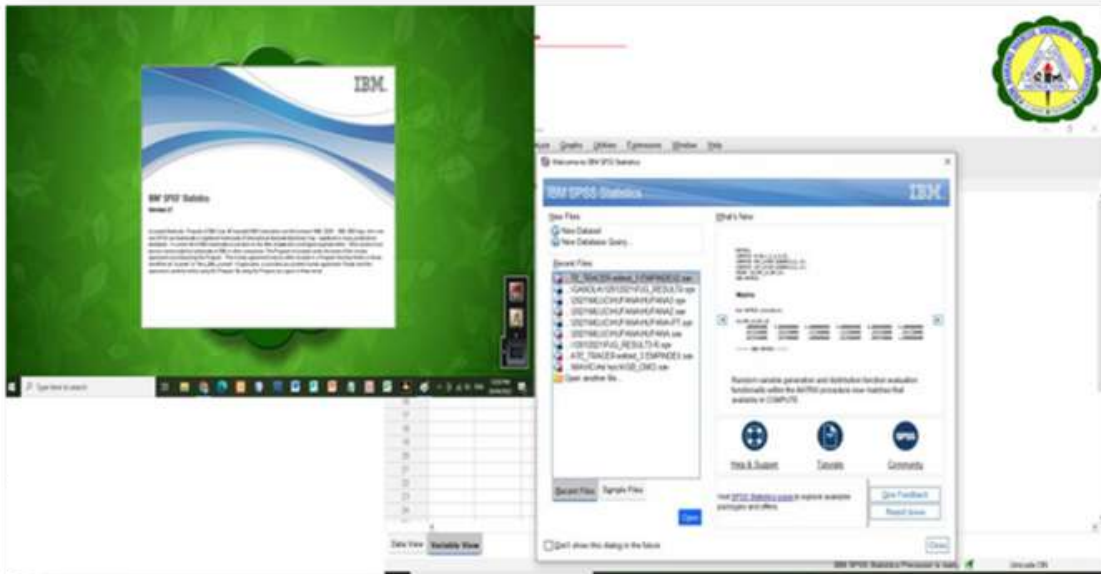
To improve the quality of research proposals, terminal reports, and journal articles through updated literatures from indexed journals, the University through its active collaboration engagements has subscribed to Clarivate Analytics (Web of Science) on May 14, 2021 and to Derwent on August 10, 2021. To explore numerous data analysis procedures using a licensed statistical software, the University has procured a 3-year SPSS subscription. Further, to ensure acceptable plagiarism threshold of research outputs, the University subscribed to Turnitin (a plagiarism detection system with grammar checking).



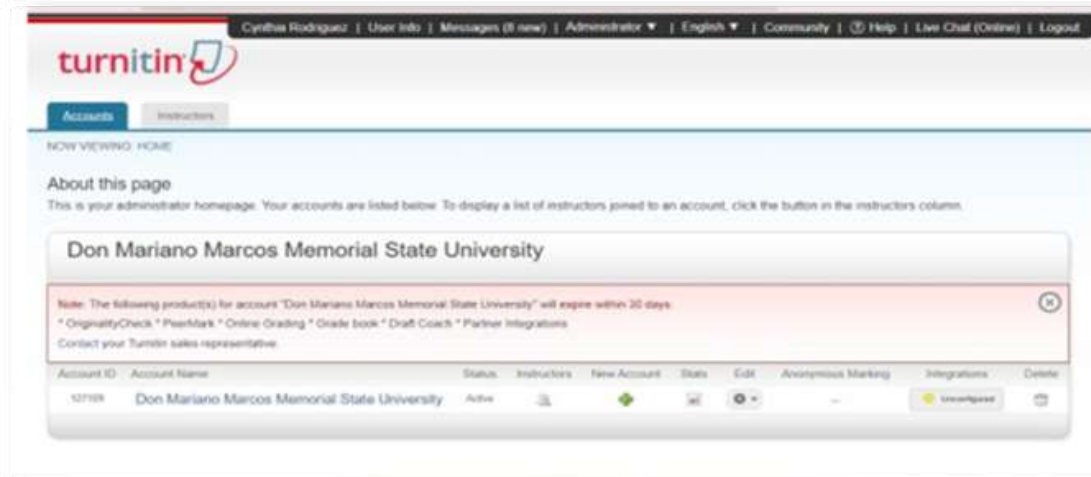
Clarivate - provides trusted insights and analytics to accelerate the pace of innovation.



Derwent - for patent search.



IBM-SPSS - for statistical analysis.



Turnitin - for plagiarism and grammar checking.

Involvement of the University in Community Development

DMMMSU takes the lead in implementing research-based community extension programs. The university stays true to its commitment of providing quality education and responsive community extension by utilizing the expertise of its faculty and staff in delivering research-based extension and community programs which are responsive to national and international goals. DMMMSU ensures the sustainability of current extension development programs with an increased number of adapters. DMMMS



Number of Technology Exhibits Participated

06

215

Number of Trainings Conducted



Number of Trainees Weighted by the Length of Training (PBB/SUC Leveling)

32,781

100

Percentage of Beneficiaries who Rate the Training Course/s and Advisory Services as Satisfactory or Higher in Terms of Quality



Number of Extension Programs Organized and Supported Consisted with the SUCs' Mandated and Priority Programs

144

EXTENSION

96

Number of Active Partnership with LGUs, Industries, NGOs, NGAs, SMEs, and other Stakeholders as a Result of Extension Activities



Number of Technology Adopters

1,628

23

Average Yearly Percentage Increase in Number of Adopters



Number of Clients Served

43,146

367

Number of SMS/Expert Mobilized



Number of Extension/Outreached Activities

36

62

Number of Technology Transferred



Technologies Developed by DMMMSU

The power of knowledge/technology is dependent upon its utility. Given this principle, the extension activities of DMMMSU included the transfer or dissemination of appropriate mature technologies and relevant information it developed or generated in its research programs and activities.

Following are some of the technologies developed by DMMMSU.



DMMMSU

DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

CERTIFIED

ISO 9001:2015
QUALITY MANAGEMENT SYSTEM

VCO AND KAKAWATE DOG SOAP

The Virgin Coconut Oil (VCO) and Kakawate Dog Soap were developed by the College of Veterinary Medicine. These are safe, effective, affordable, and all-natural soaps to treat mange. It is also a remedy for other ectoparasites in dogs. Adopted by the Sapilang Soap Maker's Association, the VCO and Kakawate Dog Soaps have been produced and distributed in the different regions of the country.

Soap making process







Virgin coconut oil soap making



- Anti-dog mite
- Anti-lice
- Anti-tick
- All natural
- Coat and skin-friendly
- Inexpensive
- Very effective

Mange infection & ectoparasites in dogs



Before After



Before After





For more information, contact us:

✉ extension@dmmmsu.edu.ph

📞 [dmmmsu@dmmmsu.edu.ph](tel:09052222222)

DMMMSU CERTIFIED ISO 9001:2015
DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

Seaweed Pickles

Seaweed pickles is made out of *Eucheuma sp./Kappaphycus sp.* seaweeds, carrots, red pepper, ginger, onions, and crushed pineapples in a unique blend of pickling syrup. To produce this product, a partnership with the Women Aquatic Processing Association (WAPA), was made.

North La Union Campus - Fisheries Research and Training Institute
Utility Model Registration No.: Composition - 2/2018/000140;
Utility Model Registration No.: Process - 2-2018-000138

MADE Naturally

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.edu.ph

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DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

Seaweed Ice Cream

With seaweed flakes (Patent - 1/2008/000131; UM Process - 2/2018/000142) as the main ingredient, seaweed ice cream was developed as an excellent snack, dessert or refreshment. It comes in different fruity flavors that are simply loved by both young and old.

North La Union Campus - Fisheries Research and Training Institute
Utility Model Registration No.: Process - 2/2018/000144

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.edu.ph

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DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

Seaweed Flakes

Seaweed flakes are made from bleached-dried *Kappaphycus sp.* and is used as the main ingredient of seaweed ice cream, seaweed maja, seaweed candies and gelatin, among others. In a test conducted by the Department of Science and Technology - Food and Nutrition Research Institute, it is a source of iodine (80%), calcium (4%), dietary fiber (6g), and sodium (40g).

North La Union Campus - Fisheries Research and Training Institute
Patent Registration No. - 1/2008/000131;
Utility Model Registration No.: Process - 2/2018/000142

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.edu.ph

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DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

Fruity Seaweed Candy

This fruity seaweed candy is made of *Kappaphycus spp.*, seaweed gel, fruit preserves, milk powder, and sugar. It underwent microbial and nutritional analyses at the Department of Science and Technology-Food and Nutrition Research Institute (DOST-FNRI), and it also passed sensory and acceptability tests by trained University panelists.

North La Union Campus - Fisheries Research Training Institute
Utility Model Registration No.: Composition - 2/2018/000145

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.edu.ph

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DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

SEAWEED SOAP TECHNOLOGY

Seabon

- ✓ DETOXIFIES
- ✓ EXCELLENT CLEANSER
- ✓ ANTI-AGING

“Seabon” is a unique, crystalline, seaweed bath soap made of seaweed extract and other natural ingredients. It cleanses, detoxifies, deodorizes, and exfoliates the skin. It contains vitamins, minerals, and natural oils that promote healthy and younger-looking skin.

North La Union Campus - Fisheries Research Training Institute
Utility Model Registration No.: Process - 2/2010/000334

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.dmmmsu.edu.ph

DMMMSU CERTIFIED ISO 9001:2015 QUALITY MANAGEMENT SYSTEM
DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

SPRAY-DRIED Roselle (Hibiscus sabdariffa L.) POWDER AND THE PRODUCT PRODUCED THEREOF

Roselle (*Hibiscus sabdariffa* L.) contains significant amount of anthocyanins and vitamin C, however these nutrients are heat sensitive and are easily degraded during processing. The study was conducted to assess the effect of the spray-drying process on the physicochemical properties of the powdered extract of Roselle. Aqueous extract of Roselle was spray-dried at inlet temperature of 175 (±1°C), outlet temperature of 73 (±1°C), feed rate of 10 rpm and pressure of 1.5-2.0 bars. The liquid feed formulation that produced good quality spray-dried Roselle powder consisted of 80% extract + 20% maltodextrin. Oven-dried (45°C for 24 hrs.) Roselle powder was also produced for comparison with the spray-dried powder. Higher loss of Vitamin C (100%) and anthocyanins (99.95%) were observed in oven-dried powder than in spray dried powder. The spray-dried powder had lower water activity, moisture content, protein, ash, and fibre content compared with the oven-dried powder. The study suggests that spray drying protects the significant nutrients (vitamin C and anthocyanins), but lowers the proximate composition of Roselle in powder production.

Mid-La Union Campus
Utility Model Registration No.: Process - 2/2012/000433

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.dmmmsu.edu.ph

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Queen Rearing

Queen rearing is one of the highly specialized fields of beekeeping, which requires a great deal of research and practice. Many of the most common methods practiced today are: in the first method, an active laying queen is separated from the main hive. She is provided synthetic queen cups where she will lay her eggs. In the second type, the beekeeper removes newly hatched larva from the brood comb to prepared queen cups, a technique known as grafting.

No matter what method or equipment is used to raise new queens, careful attention must be paid to timing. For example, larvae are only suitable for grafting during the first few days after hatching. Near the end of the queen rearing process, it is crucial to separate the sealed cells before the first new queen emerges. Otherwise, she will destroy any other cells she finds.

Doolittle's method of queen rearing was very successful, when practiced with modern equipment and genetically strong stock. Doolittle's method is reliable way to produce queens of exceptional quality.

For more information, contact us:
extension@dmmmsu.edu.ph
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Magallanes Pummelo

Magallanes pummelo is a famous variety mostly cultivated in Mindanao Region; thus, commonly known as the Magallanes “Davao” pummelo. In Luzon Island, the technology of growing this in terms of cultivation and management practices, was developed by DMMMSU. Result of studies revealed that this variety thrives very well with a promising yield under the conditions of La Union.

100% SWEET PUMMELO

WITH VITAMIN A-C-E
helps support immune system

For more information, contact us:
extension@dmmmsu.edu.ph
dmmmsu.dmmmsu.edu.ph

ISO 9001:2015
DMMMSU CERTIFIED QUALITY MANAGEMENT SYSTEM
 DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

PROPOLIS TINCTURE



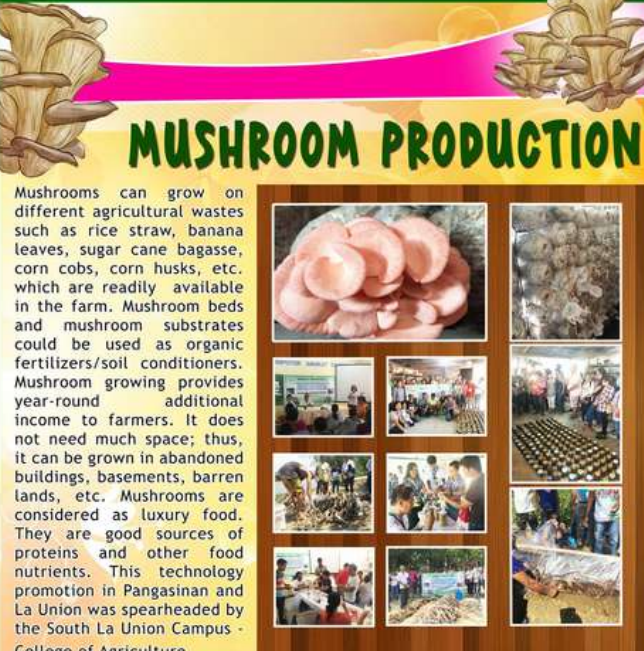
Propolis tincture is a topical wound treatment solution especially for animals i.e. castrated pigs. Formulation containing 30% propolis tincture and 70% ethanol prevents infection and promotes faster healing process. The raw material needed in making the tincture is a beehive product also known as "bee glue."

National Apiculture Research Training and Development Institute
 *Utility Model Registration No.: Composition - 2/2020/000229

For more information, contact us:
 • extension@dmmmsu.edu.ph
 • dmmmsuextension@whatsapp

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MUSHROOM PRODUCTION



Mushrooms can grow on different agricultural wastes such as rice straw, banana leaves, sugar cane bagasse, corn cobs, corn husks, etc. which are readily available in the farm. Mushroom beds and mushroom substrates could be used as organic fertilizers/soil conditioners. Mushroom growing provides year-round additional income to farmers. It does not need much space; thus, it can be grown in abandoned buildings, basements, barren lands, etc. Mushrooms are considered as luxury food. They are good sources of proteins and other food nutrients. This technology promotion in Pangasinan and La Union was spearheaded by the South La Union Campus - College of Agriculture.

For more information, contact us:
 • extension@dmmmsu.edu.ph
 • dmmmsuextension@whatsapp

ISO 9001:2015
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Kapilhan sa DMMMSU #PROJECT TANGLAW

DMMMSU Open University System PROJECT TANGLAW is an upshot of a research on the "Assessment of the Wellness and Self-care Strategies of Drug Surrenderers of the City of San Fernando La Union: A Basis for an Intervention Program, which benefits the clients of the Department of Justice Parole and Probation Administration (DOJ-PPA) empowering them with skills and knowledge along health and wellness, security and safety, livelihood, governance, and information technology.

"Tanglaw" is a Filipino term which means "Ilaw or Sinag or "Raniag", symbolizing aspiration, hope and opportunities. The DOUS and DOJ-PPA together as one in providing rehabilitation program, redeeming lives and restoring relationships.



For more information, contact us:
 • extension@dmmmsu.edu.ph
 • dmmmsuextension@whatsapp

ISO 9001:2015
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Bignay Wine

Bignay wine, also known as bugnay wine, is a Filipino fruit wine made from the berries of the native bignay or bugnay tree (*Antidesma bunius*). It is deep red in color and is slightly sweet with a fruity fragrance. It is a good source of Vitamic C and antioxidant (anthocyanin) Alcohol by volume: 12-13%



For more information, contact us:
 • extension@dmmmsu.edu.ph
 • dmmmsuextension@whatsapp

EXTENSION

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DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

UPCYCLED Clothing

Upcycled Clothes. Content: Upcycling is the method of taking old, worn out, or damaged materials and transforming them into brand new pieces. Upcycled garments, which are also referred to as repurposed, reused, or recycled clothing, are becoming increasingly popular in the contemporary fashion industry as throw pillow cases and bags.



For more information, contact us:
 @extension@dmmmsu.edu.ph
 @dmmmsuextension

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DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

Sansevieria cylindrica



Woven fabric, dyed fabric, and yarn were developed using the stalk of *Sansevieria cylindrica* plant. This raw material thrives in tropical areas and is commonly planted around houses, schools, and parks because it easily grows either in pots or in the ground.

South La Union Campus
 *Utility Model Registration No.: Composition - 2/2016/000018; Process - 2/2016/000013

For more information, contact us:
 @extension@dmmmsu.edu.ph
 @dmmmsuextension

DMMMSU CERTIFIED ISO 9001:2015
DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY LA UNION, PHILIPPINES

Tiger Grass SEED REMOVER



Tiger grass seed remover is a machine that enables easier, better, and faster removal of tiger grass seeds without breaking the grass stalk. Aside from this main function, the machine can also be used as a palay thresher. Two drums are provided in this machine to cater its dual purpose.

Mid La Union Campus
 Utility Model Registration No.: Mechanical Device - 2/2011/000255



For more information, contact us:
 @extension@dmmmsu.edu.ph
 @dmmmsuextension

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PANDESAL

Enriched with Bangus Bone Powder



"Pandesal (Salt Bread) Enriched with Bangus (Milkfish) Bone Powder" is a value-added product produced by mixing the basic pandesal ingredients with bangus bone powder which is known for its health benefits. This newly developed product was made to answer nutritious gap and nutrient deficiency that also complements with zero-waste milkfish processing.

South La Union Campus-College of Fisheries
 Utility Model Registration No.: 2/2020/000218 (Process) & 2/2020/000230 (Composition)



For more information, contact us:
 @extension@dmmmsu.edu.ph
 @dmmmsuextension



DMMMSU

DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY



ISO 9001:2015
QUALITY MANAGEMENT SYSTEM

Certificate No.: 82.87 JPH 123008.00

Issuance Date: November 26, 2018

LA UNION, PHILIPPINES




Honey Wine

Traditional honey wine is called Mead while flavored honey wine is called Melomel. Mead is produced by fermenting honey and water mixture with yeast, and its alcohol content is typically around 5% to 20%. On the other hand, to produce Melomel, we add fruit juice/extract to the Mead's basic ingredients; hence, the different flavors e.g. cashew.*

National Apiculture Research Training and Development Institute

*Utility Model Registration No.: Composition - 2/2020/000219

For more information, contact us:

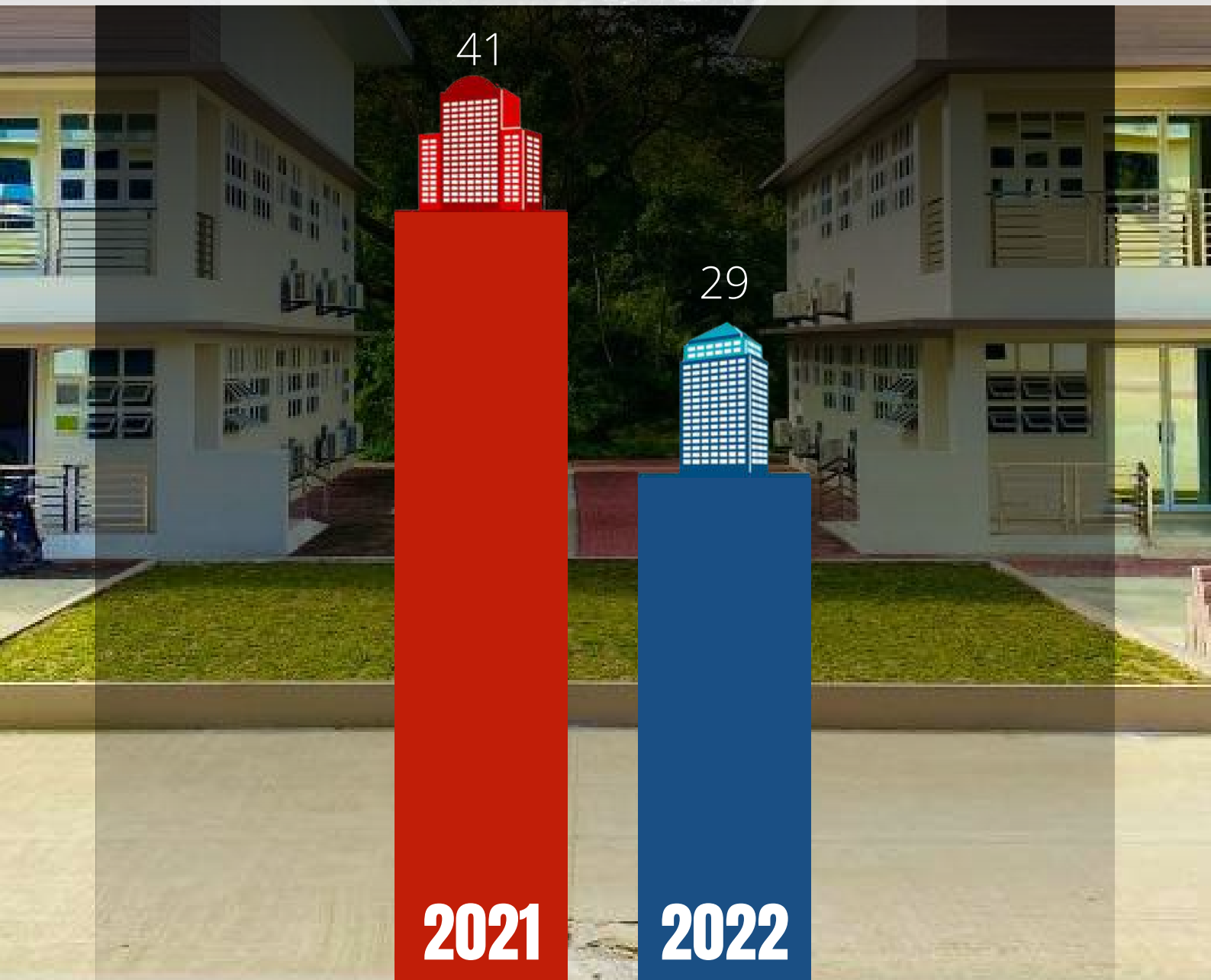
 extension@dmmmsu.edu.ph

 [dmmmsu@dmmmsu.edu.ph](https://www.facebook.com/dmmmsu@dmmmsu.edu.ph)

INFRASTRUCTURE (BUILDINGS)

Physical Infrastructure

From its GAA-Fund, in 2021 the University spent 150 million pesos for its infrastructure projects. It spends P322, 845, 000 pesos in 2022. From its local fund, it spent P37, 389, 988 in 2021, and it spends P156, 257, 684 in 2022. Through the initiative and leadership of Dr. Jaime I. Manuel, Jr., DMMMSU was able to outsource P99,600,000 and P10,000,000 for infrastructure projects in 2021 and 2022, respectively.



In 2021, a total of 41 buildings were constructed and in the first quarter of 2022, 29 buildings were constructed

INFRASTRUCTURE (BUILDINGS)



Construction of Green Administration Building, Phase 1, CA
Php 50,000,000.00



College of Criminology Building - ELUC (under MLUC supervision)
Php 8,800,000.00



Completion of College of Arts and Sciences - MLUC
Php 80,000,000.00



Completion of Materials Recovery Facility - MLUC
Php 20,000,000.00

INFRASTRUCTURE (BUILDINGS)



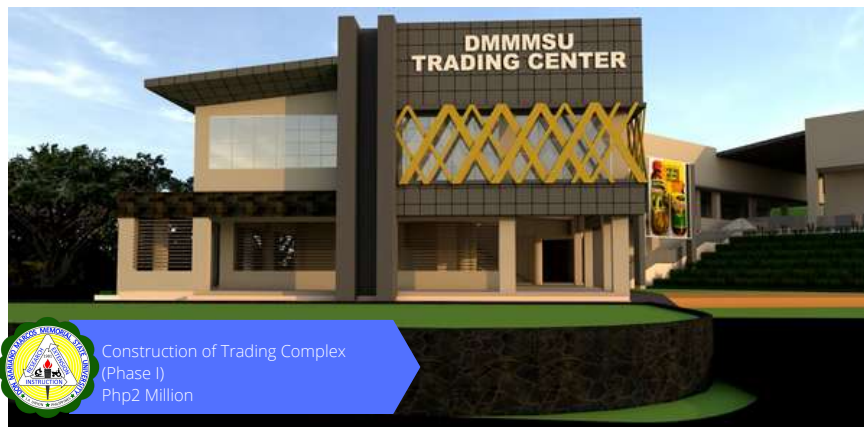
CONSTRUCTION OF DRRM / GAD TRAINING CENTER (PHASE I)
(ABC = 1,500,000.00)



Completion of SLUCian Bldg. A-SLUC



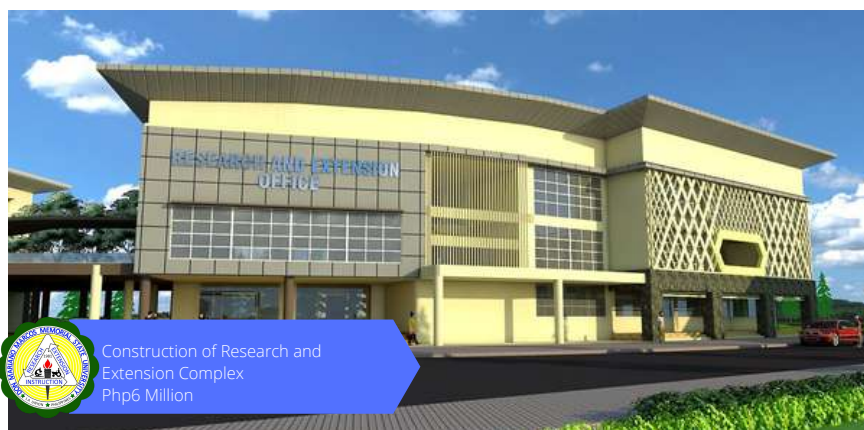
CONSTRUCTION OF TRAINING AND INNOVATION CENTER (PHASE I)
(ABC = 2,000,000.00)



Construction of Trading Complex (Phase I)
Php2 Million



Construction of Technology Business Incubator (TBI), CA, RA-SLUC
Php2 Million



Construction of Research and Extension Complex
Php6 Million



Construction of Agricultural Academic Bldg. CA, R-SLUC
Php2 Million

INFRASTRUCTURE (BUILDINGS)



DMMMSU-MLUC Multi-Purpose Building. (Cont. of the Rehabilitation of CoM Bldg.)



Construction of Multi-purpose Building (Continuation of the construction of MLUC Bleachers-Covered court)



Construction of Academic Bldg, CGS, A-SLUC
Php4 Million



Construction of Administration Building-Annex, A-SLUC
Php2 Million



Construction of Academic Bldg, CCHAMS, A-SLUC
Php1.5 Million



Construction of Research and Extension Building, Phase 2



Rehabilitation & Improvement of Sapilang Road, NLUC



Construction of Farm-to-Market Road



Improvement of Marine Education Center of DMMMSU-FRTI



DMMMSU- MLUC Multi-Purpose Building, (Rehabilitation of Com Bldg.), MLUC



Construction of Multi-Purpose Building, MLUC



Continuation of NLUC Baly ti Alumni



Completion of NLUC Multi-Purpose Covered Court

INFRASTRUCTURE (EQUIPMENT/LABORATORIES)

Guided by its Information System Strategic Plan and Operational Plan, the Office of the Management of Information System through the prompting of President Manuel rigorously addressed the University's Strategic concerns for ICT use. The COVID-19 pandemic has challenged the office with overwhelming demand for ICT infrastructure and services for more than two years now. The University has continued to deliver quality and highly commendable services to students, clients, and stakeholders. From 2019 to 2022, DMMMSU received P95,099,000 funds from the General Appropriation Act for the provision of educational services. Four (4) ICT projects amounting to P45,640,000 are funded through the University income and two (2) ICT projects amounting to P34,967,745 are funded by CHED.



51

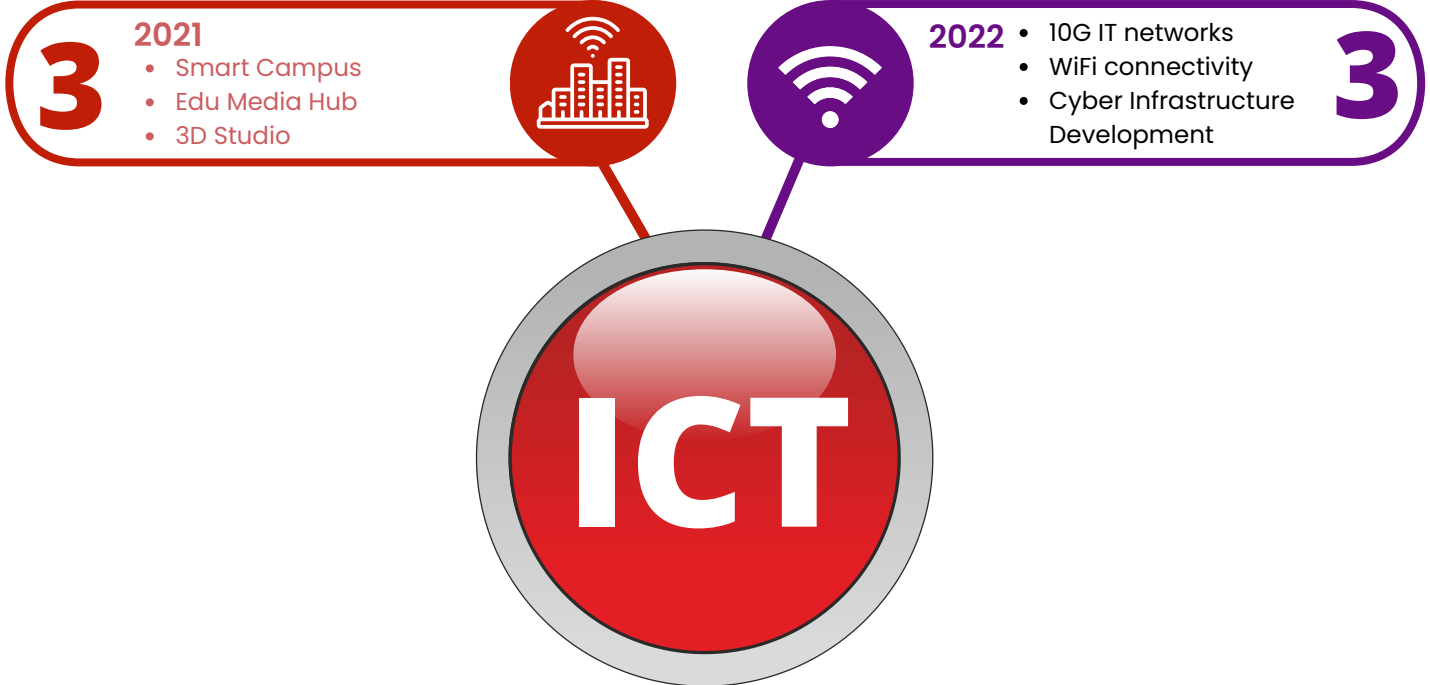
Locally funded, GAA funded and Outsourced Equipment/Laboratories in 2021

Equipment/
Laboratories

04

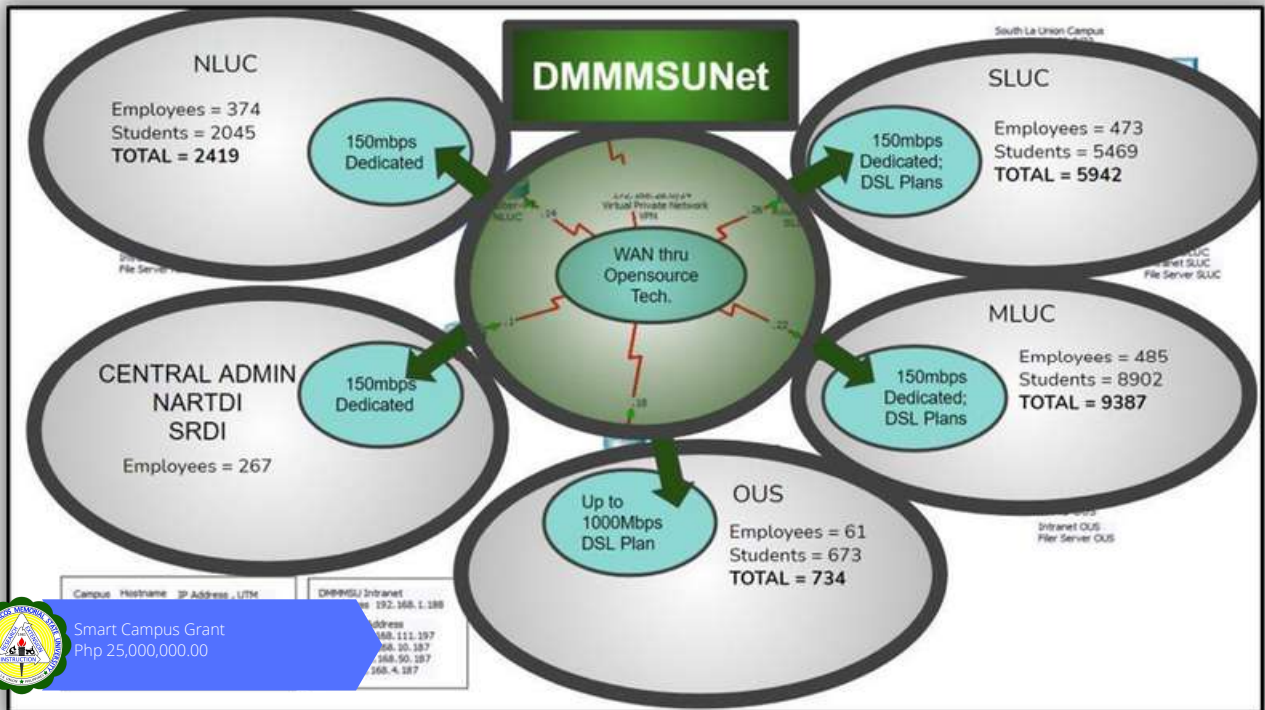
Locally funded, GAA funded and Outsourced Equipment/Laboratories in 2022

INFRASTRUCTURE (EQUIPMENT/LABORATORIES)



Engr. Nestor S. Bongato, DICT-LC1 Regional Director, and **Dr. Jaime I. Manuel, Jr.**, DMMMSU President, ink the MOA at the Conference Hall of the DMMMSU OUS in the City of San Fernando, La Union. **Mr. Allan Lao**, DICT-LC1 Technical Operations Chief, and **Dr. Cristita Guerra**, OUS Executive Director witnessed the signing.

INFRASTRUCTURE (EQUIPMENT/LABORATORIES)



Hybrid Library of DMMMSU (HyLiD)
Php 20,000,000.00

INFRASTRUCTURE (EQUIPMENT/LABORATORIES)

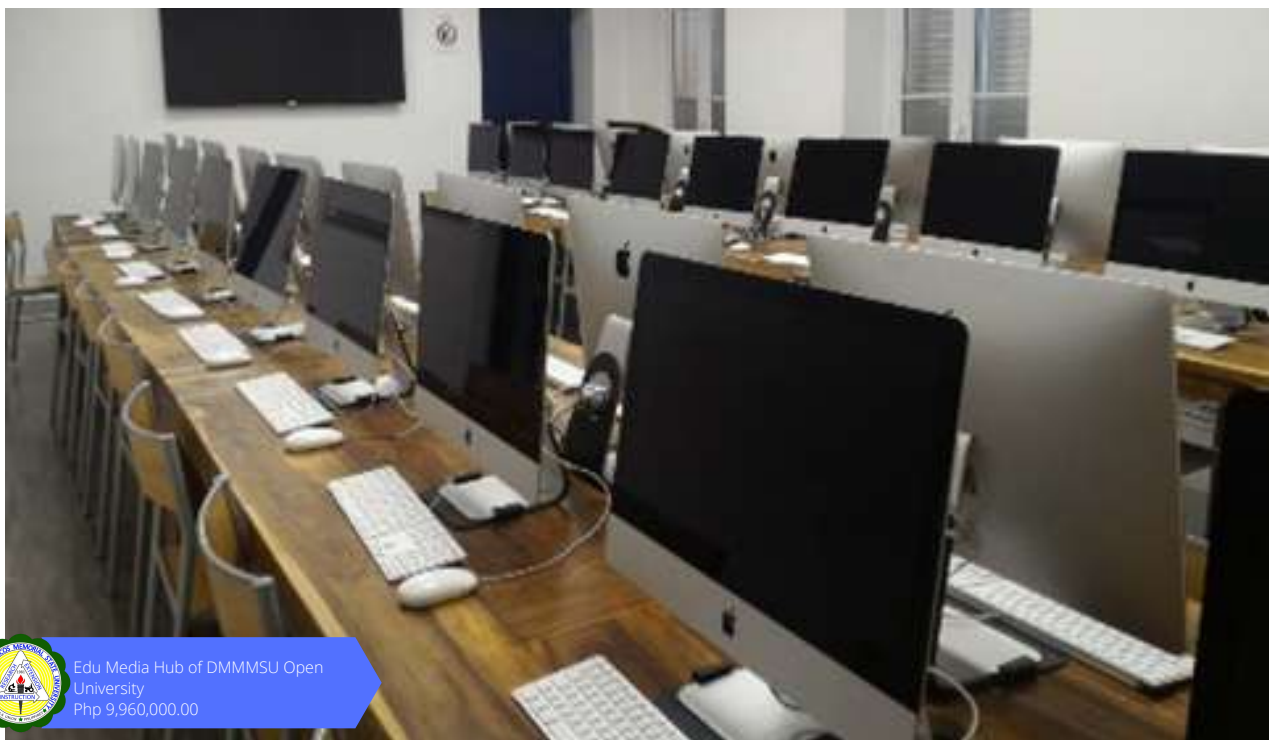


Establishment of Advance Technology
and Training Center for Robotics &
Automation of the COT, DMMMSU-
MLUC Php 19,000,000.00



BSHRM Laboratory
Php 15,000,000.00

INFRASTRUCTURE (EQUIPMENT/LABORATORIES)



Edu Media Hub of DMMSU Open University
Php 9,960,000.00



International Mobility in the New Normal:
Modernizing the iLab as an Innovation Laboratory for Global Education and Digital Citizenship, DMMSU-SLUC
Php 7,500,000.00

INFRASTRUCTURE (EQUIPMENT/LABORATORIES)



Establishment & Upgrading of COT
Academic Laboratories
Php 7,415,000.00

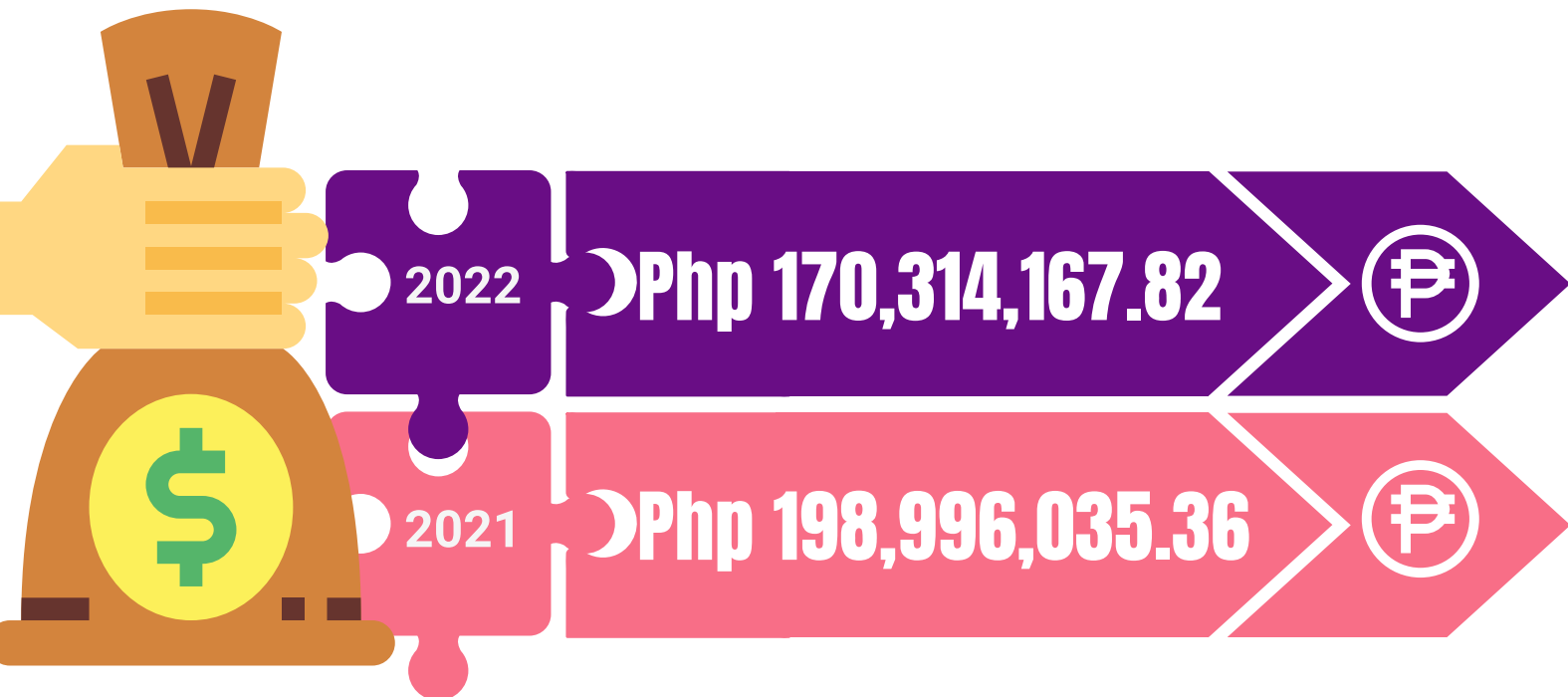


Modernization of AC & DC Machinery
Laboratory Equipment of DMMMSU-
MLUC, College of Engineering
Php 25,000,000.00

RESOURCE GENERATION AND MANAGEMENT

Production/Resource Generation

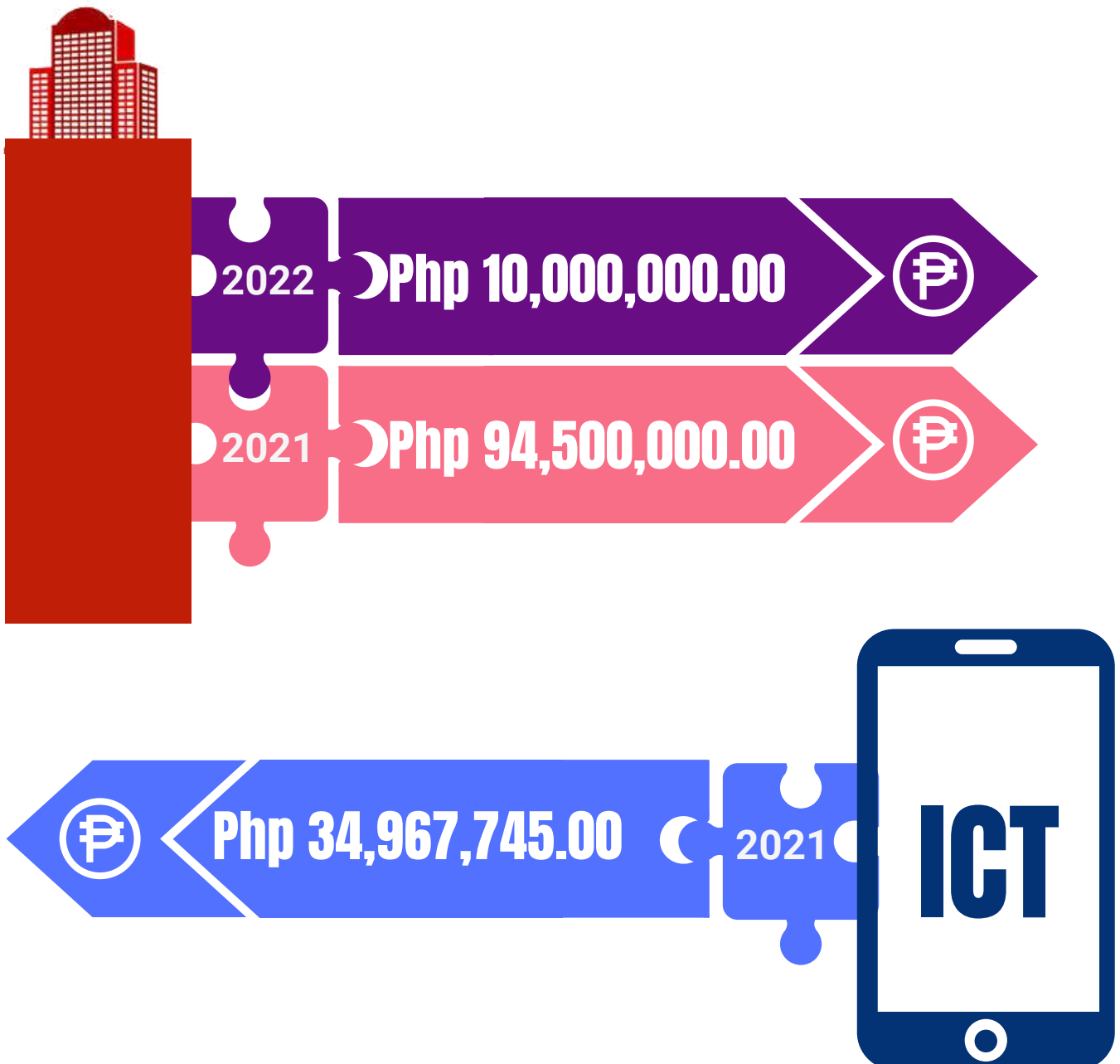
From 2021 to first quarter of 2022, DMMMSU has earned an income of P369,310,203.18 from its various income generating projects. These projects are namely: poultry, piggery, dragon fruit, BIO-N based project, mushroom project, FRTI canteen, beach house, guest house, computer services, CCS printing of forms, souvenir shop, vegetable project, sheep, mango, tilapia. Despite the lockdowns, the University managed to generate income to fund some of its needs.



Donations/ Grants

President Manuel has established his integrity and trustworthiness among numerous benefactors. Clothed with much courage and humility, he can fluidly make requests and entreaties for fund allocations and receive generous affirmation from supporters, Local Government Unit and Government Agencies. During the administration of President Manuel, grants and donations of various forms flooded the University.

For infrastructure development, the University was able to outsource 13 projects amounting to P104, 500, 000 for the year 2021 to 2022 and 34,967,745 worth of ICT projects in 2021.



Increase in Subsidy (GAA Fund)

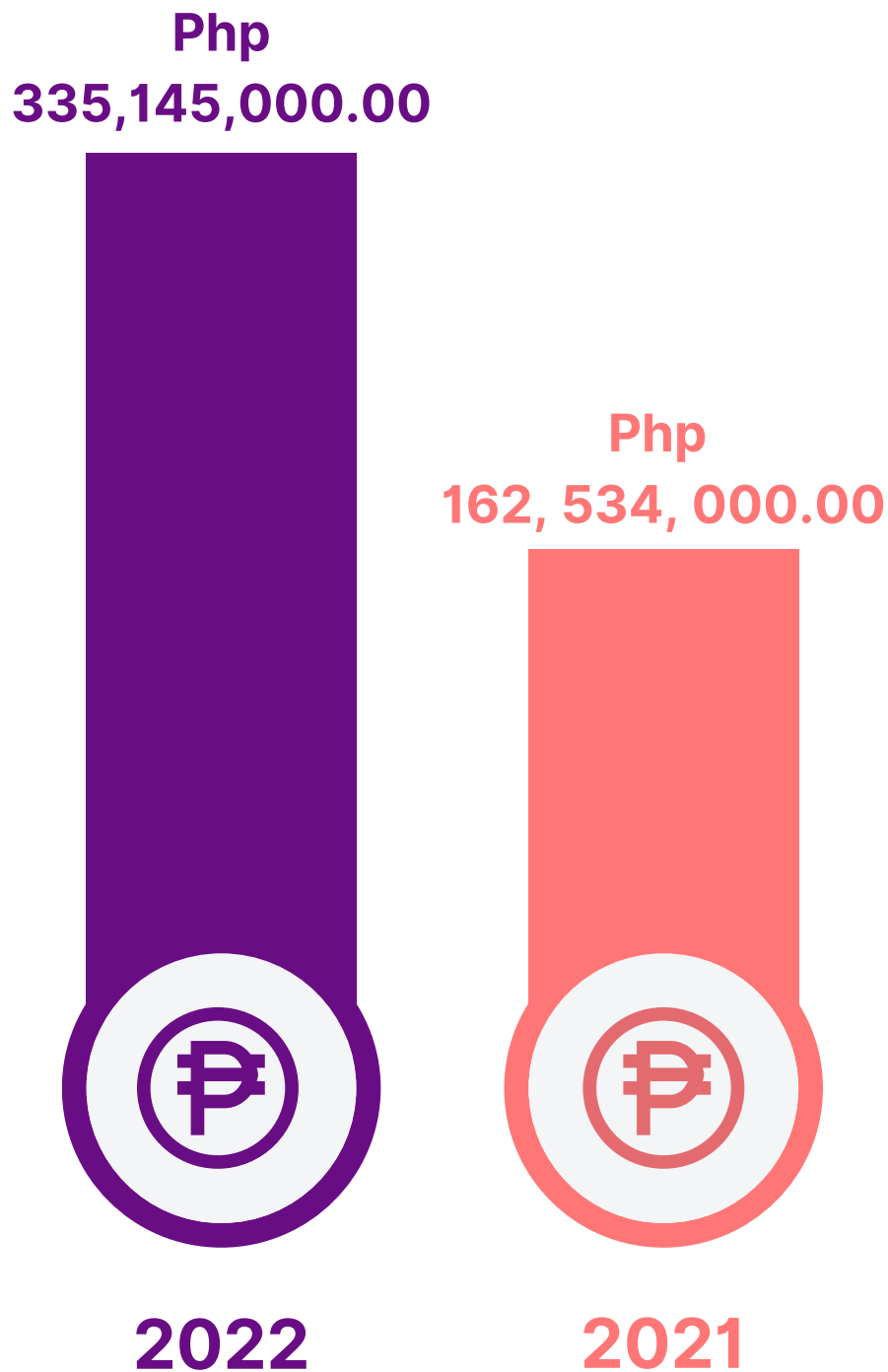
Through President Manuel's incessant planning, monitoring and evaluation, he continues to see the various needs of the University, and through his leading and prodding for project proposals development and presentation, government subsidies through the General Appropriations Act (GAA) Fund, funds for each year since 2019, when President Manuel took the seat have increased considerably and consistently.

As can be seen from the table that follows, subsidies from 2019 (P116,000,000.00) to 2020 (P300,712,500.00) increased to three times higher. It, however, decreased to almost half, in 2021 (P162,534,000.00) due to the need of the government to reduce general funding for SUCs in order to provide for much larger social amelioration funds during the peak of the lockdowns as well as to fund COVID prevention measures by the government.

FUNDING SOURCE	CAPITAL OUTLAY		TOTAL
	INFRASTRUCTURE OUTLAY	EQUIPMENT OUTLAY	
GAA - 2011			
GAA - 2012			
GAA - 2013	15,000,000.00	3,700,000.00	18,700,000.00
*GAA - 2014	60,020,000.00		60,020,000.00
GAA - 2015	63,978,000.00		63,978,000.00
GAA - 2016	101,166,000.00	1,000,000.00	102,166,000.00
**GAA -2015	100,722,056.00		100,722,056.00
GAA - 2017	113,948,000.00	1,000,000.00	114,948,000.00
GAA - 2018	102,584,000.00	5,000,000.00	107,584,000.00
GAA - 2019	106,000,000.00	10,000,000.00	116,000,000.00
GAA - 2020	261,247,500.00	39,465,000.00	300,712,500.00
GAA - 2021	150,000,000.00	12,534,000.00	162,534,000.00
GAA - 2022	322,865,000.00	12,280,000.00	335,145,000.00

RESOURCE GENERATION AND MANAGEMENT

For 2022, subsidies have ballooned to **P335,145,000.00**. This includes the fund allocation for the establishment of the College of Medicine which is 281 million pesos.



Budget Utilization Rate

Fund 164

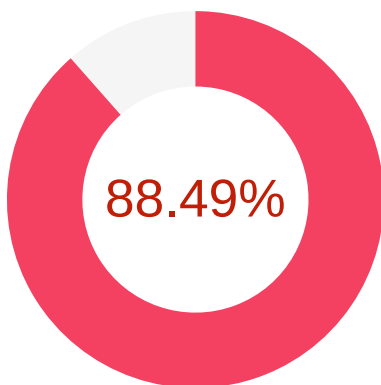
The University has achieved an outstanding budget utilization rate for its Fund 164. Its performance from 2019 (81.16%), improved in 2020 (82.04%), and it further improved in 2021 (88.49%).

Fund 101

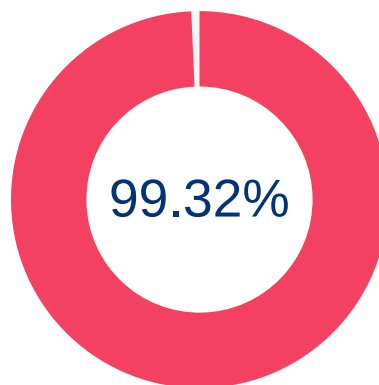
As for its Fund 101, DMMMSU manifests full capacity to utilize its funds.

Total appropriations, obligations and disbursements, and budget utilization rate CYs 2021-2022

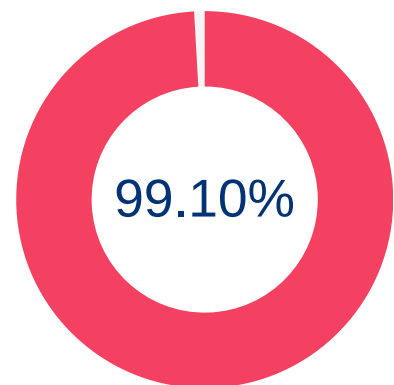
Year	Available Appropriations	Allotment Releases	Obligations	Disbursements	Budget Utilization Rate	
					Obligations vs Allotment	Disbursements vs Obligations
2021	1,259,729,000	1,134,926,103	1,127,190,249.06	1,116,997,369.29	99.32%	99.10%
2022	1,633,506,000	928,101,000	223,028,673.54	196,713,381.08	24.03%	88.20%



Fund 164



Fund 101
Obligations vs
Allotment



Fund 101
Disbursement
vs Obligations

Procurement Rate (PR) for Equipment and Capital Outlay

Fund 164

As for the status of Capital Outlay Implementation (Infra and Non-infra) for FYs 2021 to 2022, 100 percent procurement rate is achieved.

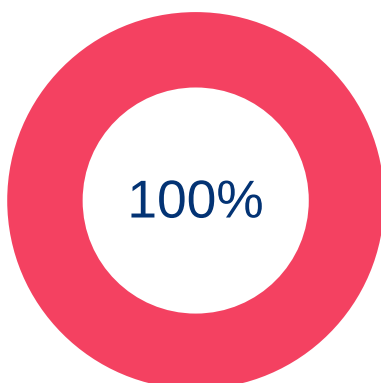
Fund 101

As for procurement rate for equipment and capital outlay, DMMMSU records a 100 percent rate from 2019 to 2021.

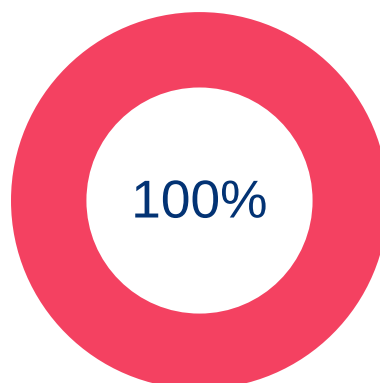
2021

Projects	APPROPRIATION	Project Cost	STATUS OF PROCUREMENT	STATUS OF IMPLEMENTATION
Completion of the Material Recovery Facility-MLUC	20,000,000.00	20,000,000.00	procured	Completed
Construction of Green Administration Building, Phase 1	50,000,000.00	49,946,855.51	procured	90.00% as of March 31, 2022
Provision of Higher Education Services (OUS & SLUC)	12,534,000.00	12,529,625.40	procured	Completed
Completion of College of Arts and Science (CAS) Bldg.	80,000,000.00	79,888,000.00	procured	98.00% as of March 31, 2022
TOTAL	162,534,000.00	162,364,480.91	100%	94%

PROCUREMENT RATE - 100%



Fund 164



Fund 101

RESOURCE GENERATION AND MANAGEMENT

2022

Projects	APPROPRIATION	Project Cost	STATUS OF PROCUREMENT	STATUS OF IMPLEMENTATION
Provision of Water Treatment, MLUC	32,922,000.00	32,724,012.67	procured	On-going implementation
Infrastructure and Smart Campus Development, Operationalization of Face to Face Classes and Upgrading/Procurement of Equipment				
School Building	8,820,000.00	-	On-going	
Equipment Outlay			documents	
Other Machinery & Equipment	8,820,000.00	-	- to be requested at DBM ROI (under the for Later Release Program, GAA 2022)	
Furniture & Fixtures	1,960,000.00	-		
Construction of the College of Medicine Building	281,123,000.00	-		
Increase in Carrying Capacity of Nursing and Allied Health Programs	1,500,000.00	-	Requested the release of SARO & NCA at DBM ROI	
TOTAL	335,145,000.00	32,724,012.67		

DMMMSU *Board of Regents*

2021-2022



HON. J. PROSPERO E. DE VERA, III
Chairperson, Commission on Higher Education
Chairperson, DMMMSU BOR



HON. JAIME I. MANUEL, JR.
President, DMMMSU
Vice Chairperson



HON. EMMANUEL JOEL J. VILLANUEVA
Chairperson, Senate Committee on Education, Arts and Culture
Member



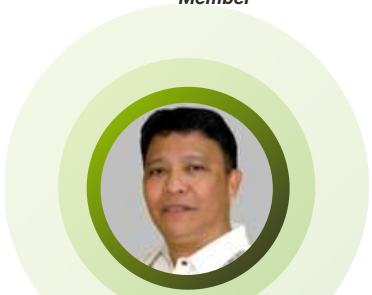
HON. MARK O. GO
Represented by: Hon. Ricardo S. Guanzon
Chairperson, House Committee on Higher
and Technical Education
Member



HON. NESTOR G. RILLON
Regional Director, National Economic and Development
Authority – RO1
Member



HON. NESTOR D. DOMENDEN
Regional Executive Director, Department of
Agriculture – RO1
Member



HON. ARMANDO Q. GANAL
Regional Director, Department of Science and
Technology – RO1
Member



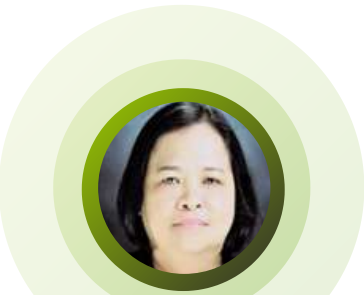
HON. PANCRACIO Q. NISCE
Representative, Private Sector
Member



HON. DANIEL T. BOLONG
Representative, Private Sector
Member



HON. MARIO EDUARDO C. ORTEGA
President, Alumni Association
Member



HON. JO ANN P. RULLA
President, Faculty Association of DMMMSU
Member



HON. DENVER N. DIOCARES
President, University Student Council
Member



HON. DANILO B. BOSE
OIC Director IV, CHED-RO1
Resource Person



HON. ANTONIO O. OGBINAR
University and Board Secretary

UNIVERSITY *Officials*

2021-2023



DR. JAIME I. MANUEL, JR.

University President



DR. HONORIO C. BUCCAT

June 2019-Aug 2021

Vice President for Academic Affairs



DR. ELSIE M. PACHO

Aug 2021-present



DR. CYNTHIA M. RODRIGUEZ

2021-2022

Vice President for Research & Extension



DR. ANGELINA T. GONZALES

(OIC) 2022-present



DR. ESTRELLA N. PEREZ

VP for Administration



DR. PRISCILO P. FONTANILLA, JR.

VP for Planning & Resource Development



DR. JUNIFER REY E. TABAFUNDA

Chancellor, NLUC



DR. EDUARDO C. CORPUZ

Chancellor, MLUC



DR. JOANNE C. RIVERA

Chancellor, SLUC



DR. CRISTITA C. GUERRA

Executive Director
OUS



DR. CRISTETA F. GAPUZ

Executive Director
SRDI



DR. GREGORY B. VISTE

Executive Director
NARTDI

DMMMSU Hymn

*Hail beloved Alma Mater
Don Mariano Marcos Memorial State University
Your honored name will shine forever
Keep your glorious fame resounding far and near.*

*From thy portals we learn
Skills unknown before
And heads and hands keep on craving for more*

*Oh hail beloved institution
Never shall we stand forlorn
From you a new era is born
To keep life smoothly moving on.*

*You are our inspiration
In our quest for knowledge and wisdom
You fulfill a noble mission
In instruction, research and extension*

*You give the best solution
In transforming our land into a great nation
And though the years may come and go
Our love for you will grow
Beloved University
We are proud of you.
We are proud of you.*

PHILOSOPHY

Total human development with appropriate competencies.
Naan-anay a pannakamuli ti tao iti umiso ken nadumaduma a kabaelan.

VISION

A globally competitive university.
Mabigbigbig nga unibersidad iti sangalubungan.

MISSION

Provides high quality instruction, research and extension.
Mangipaay iti maiyanatup ken dekalidad a panangisuro, panagsukisok ken ekstensiyon.

GOAL

To lead in transforming human resources into productive, self-reliant citizens and responsible leaders.
Mangidaulo iti pannakatubay dagiti tao a managparnuay, makapagwaywayas ken nanakman a mangidalan.



