



Radiance 2024

*Journal of
Social Orientation and Community Involvement of*
MAPÚA UNIVERSITY

INTRODUCTION

Staying true to its mission and vision, Mapúa University consistently addresses community needs through its specialized programs, aiming to tackle pertinent social issues. The Office for Social Orientation and Community Involvement Programs (SOCIP) spearheads these efforts, fostering collaborations with NGOs, government agencies, local government units, and private organizations. These partnerships aim to create practical and significant projects that enhance the quality of life for community members.

Mapúa University's initiatives are guided by the United Nations Sustainable Development Goals (SDGs), ensuring that its programs align with global priorities for sustainable development. Through focused efforts on key programs, the university contributes meaningfully to the achievement of these goals. Additionally, the Extension Service Initiatives play a vital role in directing the university's social and community involvement activities, further strengthening its commitment to making a positive impact.



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SOCIAL ORIENTATION AND COMMUNITY INVOLVEMENT INITIATIVES



Research-Based Extension Service

Guided by the Commission on Higher Education's triad on rendering quality education, the integration of research, instruction and extension will give relevance in addressing the needs of the community. The learning provided through instruction will brought about the use of research that brings output in terms of extension service.



Health and Environment

Global issues on health and environment has become alarming. Such issues and concerns shall be addressed through the technical capabilities and human resources of the University. Modes of prevention, assessments and solutions shall be done to create a healthy community and clean environment.



Livelihood and Cooperative Building

Livelihood programs shall be introduced to the community. Building a cooperative shall serve as venue to market and sustain the products of the community as a result of the livelihood programs introduced. It shall ensure that products of the community beat par with the market in terms of quality but at lower cost. The cooperative shall be an access to basic commodities to address basic needs.



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Education

The University shall develop programs in education. The program for education shall empower the community to make intelligent decisions. It shall in its capacity, address the needs of out-of-school youth and adults. It shall foster teaching and learning by conducting trainings/seminar/workshops that are current in content especially for public school teachers and students.



Values Formation, Sports, Recreation, Culture and the Arts Program

Programs on values formation, sports, recreation, culture and the arts shall help the community spend their time in more relevant activities.



Consultancy Program

Consultancy shall be used to address community needs either on regional or national level. The University's technical expertise shall be utilized on-site and off-site to assess and find recommendations and solutions for the community.



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Outsourcing

Aside from the provisional budget allocated by the University for extension services, the school shall find ways to outsource fund and resources to achieve its extension service initiatives. Outsourcing includes funding, manpower, materials, skills and knowledge and technology transfer.



Aid and Infrastructure

The University's extension services shall be made available to quickly respond to calamity stricken areas and address real time community requests and needs. It shall in its capacity, mobilize and prepare its people and resources to respond and administer any aid that maybe delivered to the community.

The University shall help improve the conditions of the community through visible infrastructure related projects. Provisions for assessing structure's electrical wiring, structure rigidity and overall safety shall be done. Design of infrastructure for public use can be addressed by the faculty at the comforts of the four walls of a room. Direct contact with the community need not be observed for design and concept making shall be done using the University's facilities.



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School of Chemical, Biological, Materials Engineering, and Sciences



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Module 32: The Muscular System (Part 2)

ALEAP

Alternative Learning Equivalency and Accreditation Program

Micro-Lecture series adapted from the learning strands of the Alternative Learning System (ALS) of the Department of Education (DepEd)



Office for Social Orientation and Community Involvement Programs

Creation of Micro-Lecture Videos and Assessments for Alternative Learning Equivalency and Accreditation Program (ALEAP) Learning Strand 2: Scientific and Critical Thinking Skills

The School of Chemical, Biological, Materials Engineering, and Sciences have created micro-lecture videos of different topics for the Alternative Learning Equivalency and Accreditation Program Learning Strand 2: Scientific and Critical Thinking Skills. This is to contribute to the Dunong Lingkod portal where learners can freely access the site for additional online learning resources. The Dunong Lingkod website of Mapua is <https://dunonglingkod.mapua.edu.ph/>.

The activity was held from September 2023-February 2024.

The MLVs was completed through a close to collaboration between CBMES students and faculty members. The faculty had a strong role in steering the students by assigning tasks, providing outlines and storyboards, and thinking about the general workflow around assessment tasks or quizzes. The students then moved on to the production of the MLVs and accompanying assessment tasks.

Lesson 1:

The General Structure of the Human Body

Major Causes of Water Pollution

- Land-based pollution
- Air-based pollution
- Dumping and marine transport pollution

Problems concerning unsafe drinking water and water shortage are due to water pollution

- Water shortage is experienced because of failure to conserve and use our water resources properly.



Human practices that harm water resources

- Dumping of toxic wastes into rivers and streams by industrial plants



Lesson 1: The General Structure of the Human Body.

The Endocrine System

The endocrine system is composed of different organs located throughout the body, which produce hormones.

Hormones are chemicals that act as signals and travel via the blood. These chemicals control your growth, energy use and reproduction. When a hormone reaches another organ in the body, it causes changes in that organ.

Example:

An example of how hormones work would be the action of the estrogen hormone in females. This chemical is produced in the ovaries. When organs that are sensitive to estrogen, such as the breasts, receive this chemical signal, changes occur.

Estrogen causes breast enlargement among females, especially during puberty.

How you heard of diabetes?

Diabetes is a disease which affects our endocrine organ, the pancreas. Diabetes is characterized by a deficiency of the hormone insulin, causing high blood sugar. This can lead to problems like slow healing, eye issues, and heart or kidney trouble.

People with diabetes use insulin injections to help their bodies use sugar properly and stay healthy.

The Lymphatic System

Another system of the body involved in internal communication is the lymphatic system.

- The lymphatic system is composed of lymph vessels, lymph nodes and lymphatic organs which collect, move and drain lymph or interstitial fluid.
- The lymphatic system also performs a very important role in maintaining the immunity of the body from bacteria and other foreign substances.

MULTIPLE CHOICE: Choose the letter of your correct answer.

1. What concept is known as the domain of philosophers?
 - a. Science
 - b. Technology
 - c. Mathematics
 - d. History
2. What concept is known as the domain of tanners, millers, and silversmiths?
 - a. Science
 - b. Technology
 - c. Mathematics
 - d. History

Ans. A

Ans. B

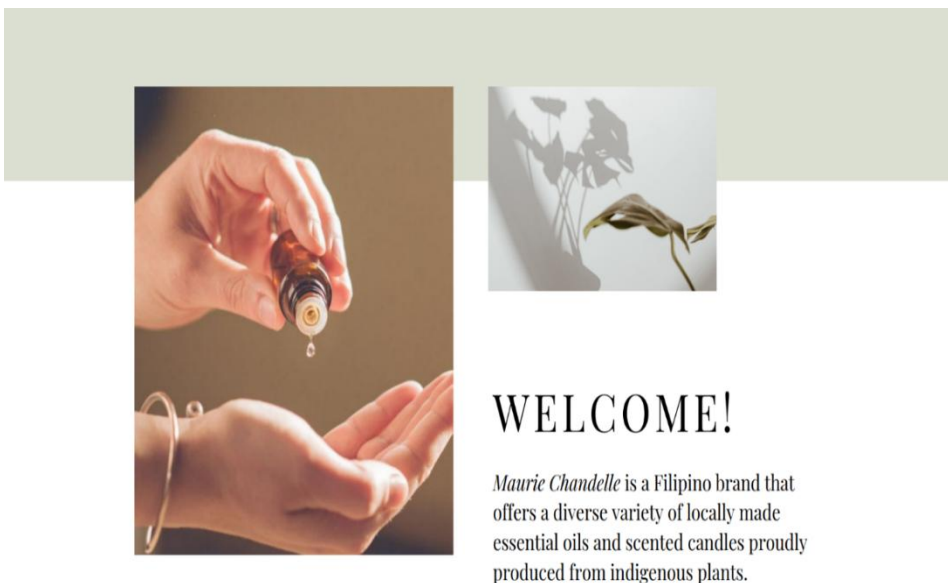
3. Who invented the telegraph?
 - a. Roger Bacon
 - b. Guglielmo Marconi
 - c. Alexander Graham Bell
 - d. Michael Faraday

Senior High School Community-Based Immersion Program Mentoring (SDG1-1: Perfume 101: Oil Extraction And Business Plan and SDG 11-1: Floor Plan-based Materials Costing Estimate)

The faculty members of the School of Chemical, Biological, Materials Engineering and Sciences (CBMES) took on the role of mentors and evaluators for the community-based immersion activities of Mapua Senior High School students. The activity was held on February 5-16, 2024 via virtual mode.

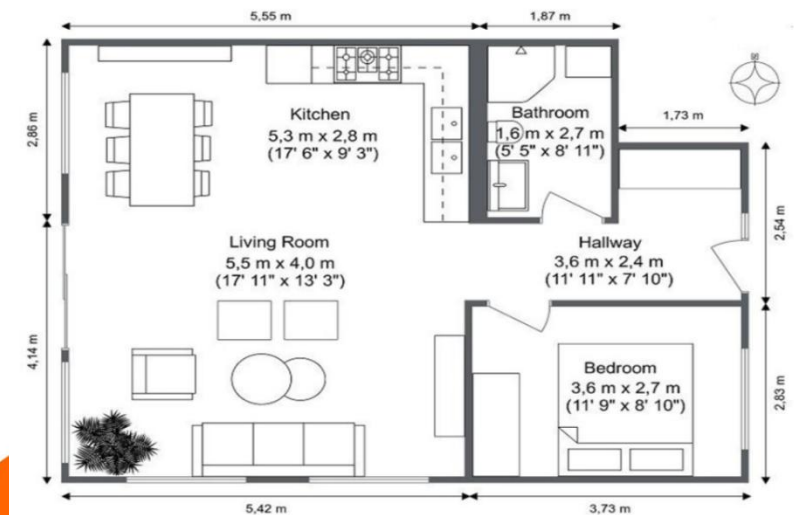
The faculty evaluated the outputs of the senior high school students using provided rubrics. The students' projects included business plans for a perfume business and house floor plans for materials costing estimate.

Through the project, the students were able to demonstrate their skills and ability to handle various aspects of their projects from planning to execution. This initiative also highlighted the importance of practical experiences in education, and real-world problem-solving skills.



SDG11-1 - Floor Plan Based Materials Costing Estimate

Valdez, Reign Zenith S.



School of Civil, Environmental and Geological Engineering



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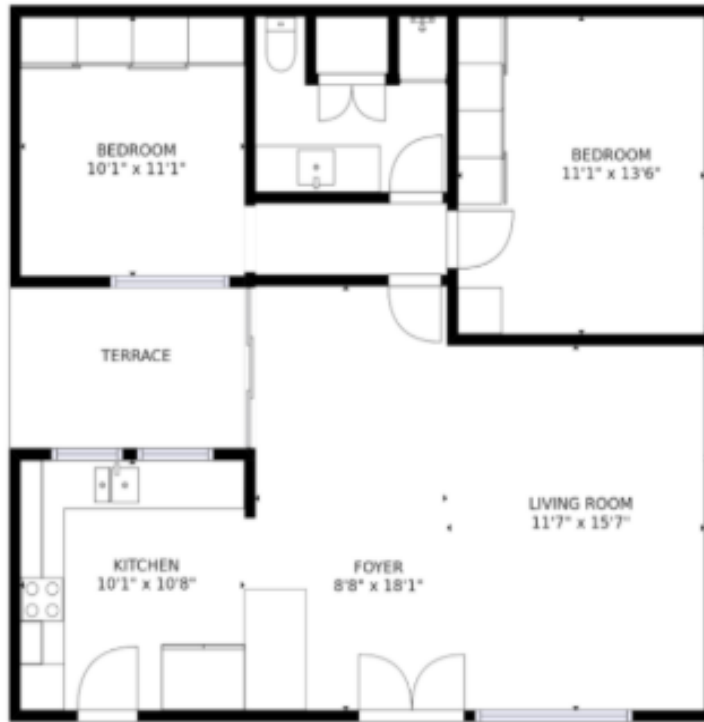


Senior High School Community-Based Immersion Program (SDG11-1: Floor Plan-based Materials Cost Estimate)

The School of Civil, Environmental, and Geological Engineering participated in the Senior High School community-based immersion program that aimed to evaluate the outputs of the senior high school students under the Civil Engineering (CE) track. Work output is a cost estimate of materials for wall construction of a one-storey residential structure. The activity was held from February 5-16, 2024.

The students measured the linear meter length of their assigned walls and estimated the quantities of concrete hollow blocks (CHB), sand, and steel reinforcement required. They also identified local suppliers and obtained pricing to calculate the total cost for CHB wall laying.

The diverse outputs showcased the students' ability to utilize online resources effectively. This project provided them with valuable hands-on experience in material estimation, a crucial skill for future Civil Engineers.



PROJECT OUTPUT DESCRIPTION									
Outer Wall					Outer Wall with Doors/Windows				
Material	Quantity	Unit	Price	Total	Material	Quantity	Unit	Price	Total
CHB	1,000	m ²	150	150,000	CHB	1,000	m ²	150	150,000
Sand	100	m ³	100	10,000	Sand	100	m ³	100	10,000
Steel	10	kg	100	1,000	Steel	10	kg	100	1,000
Inner Wall					Inner Wall with Doors/Windows				
Material	Quantity	Unit	Price	Total	Material	Quantity	Unit	Price	Total
CHB	500	m ²	150	75,000	CHB	500	m ²	150	75,000
Sand	50	m ³	100	5,000	Sand	50	m ³	100	5,000
Steel	5	kg	100	500	Steel	5	kg	100	500
Floor Slab					Floor Slab with Reinforcement				
Material	Quantity	Unit	Price	Total	Material	Quantity	Unit	Price	Total
Concrete	100	m ²	100	10,000	Concrete	100	m ²	100	10,000
Steel	10	kg	100	1,000	Steel	10	kg	100	1,000
Roof					Roof with Tiles				
Material	Quantity	Unit	Price	Total	Material	Quantity	Unit	Price	Total
Tiles	100	m ²	100	10,000	Tiles	100	m ²	100	10,000
Wood	10	m ²	100	1,000	Wood	10	m ²	100	1,000
Total					Total				
CHB	1,500	m ²	150	225,000	CHB	1,500	m ²	150	225,000
Sand	150	m ³	100	15,000	Sand	150	m ³	100	15,000
Steel	15	kg	100	1,500	Steel	15	kg	100	1,500
Concrete	100	m ²	100	10,000	Concrete	100	m ²	100	10,000
Tiles	100	m ²	100	10,000	Tiles	100	m ²	100	10,000
Wood	10	m ²	100	1,000	Wood	10	m ²	100	1,000
SUPPLIES					SUPPLIES				
Material	Quantity	Unit	Price	Total	Material	Quantity	Unit	Price	Total
CHB	1,500	m ²	150	225,000	CHB	1,500	m ²	150	225,000
Sand	150	m ³	100	15,000	Sand	150	m ³	100	15,000
Steel	15	kg	100	1,500	Steel	15	kg	100	1,500
Concrete	100	m ²	100	10,000	Concrete	100	m ²	100	10,000
Tiles	100	m ²	100	10,000	Tiles	100	m ²	100	10,000
Wood	10	m ²	100	1,000	Wood	10	m ²	100	1,000
Full Detailing Plan Click Here					Full Detailing Plan Click Here				



Intervention Program for CE Courses

The School of Civil, Environmental, and Geological Engineering conducted an intervention Program for those who obtained an IP or In Progress grades. Students who were unable to submit certain requirements and assessments were given the chance to complete and replace their obtained IP grades in their module grade.

The activity was implemented from 4th Quarter of 2022-2023 to 3rd Quarter of 2023-2024.

The program was designed to identify and support students who were fallen behind, providing them with tailored resources and personalized guidance. Lectures were conducted to give more additional information to the students. Then followed by assessments to measure the effectiveness of class intervention.

School of Electrical, Electronics and Computer Engineering



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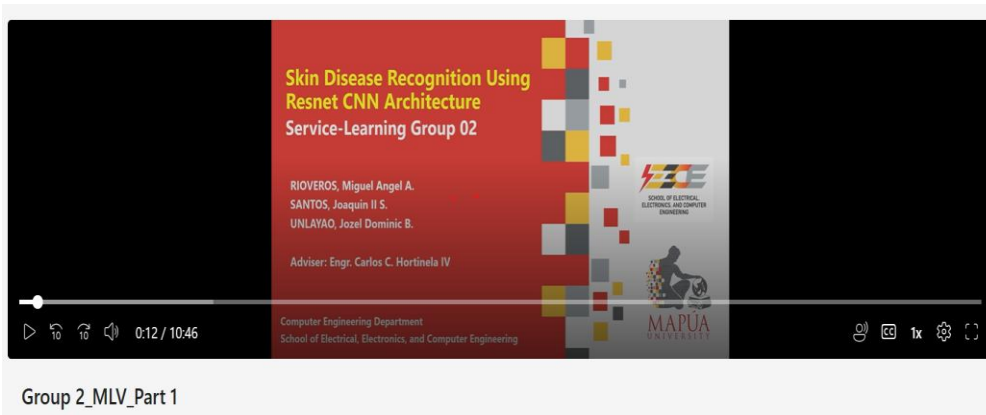
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EECE Service-Learning Activity of CPE176P and CPE124

The School of Electrical, Electronics, and Computer Engineering (EECE) as part of its initiative on Service Learning activity for the courses CPE176P and CPE124. The activity was held from November 13, 2023-February 11, 2024.

The students were divided into nine (9) groups and were mentored by nine (9) faculty members who reviewed and evaluated the outputs of the students.

Each group had their consultation sessions with their respective faculty in-charge to ensure that the students' outputs are well presented.



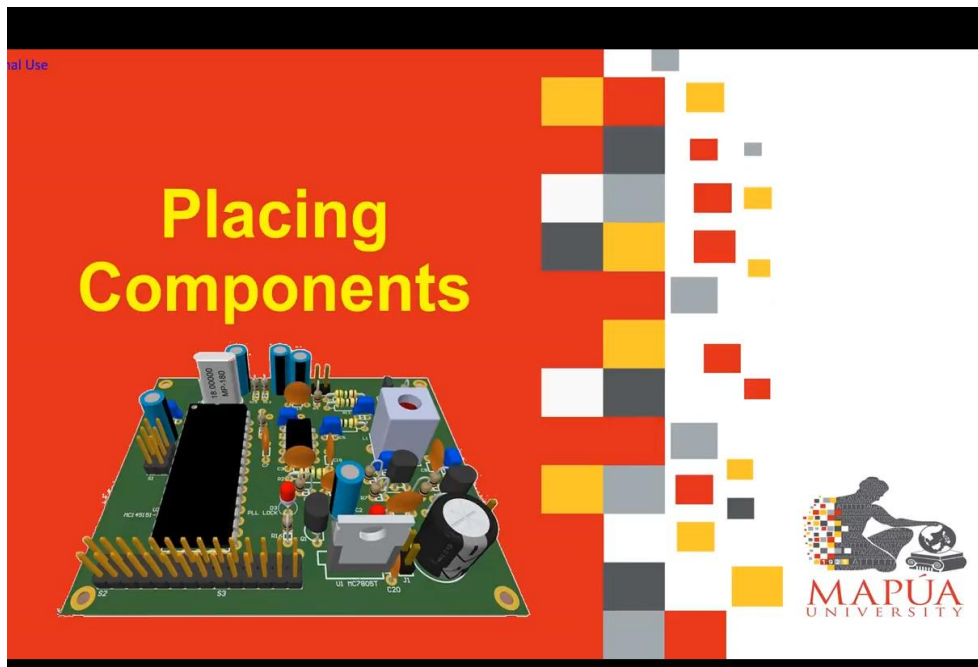
Group 2_MLV_Part 1



Group 1_MLV_Part 1



CPE176P_MVL_Group 2



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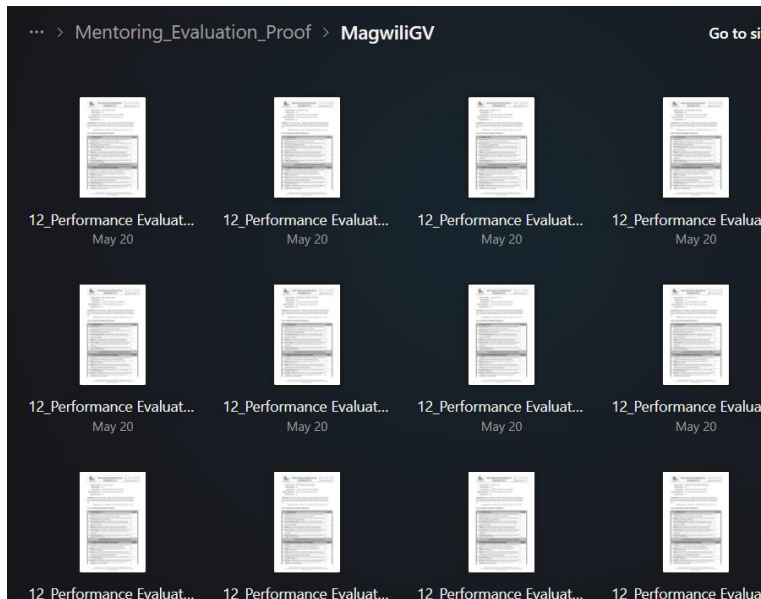


Senior High School Community-Based Immersion Program Mentoring (SDG16-1: Creation of Community Management Data App and SDG11-1: Floor Plan-Based Materials Cost Estimate) and Micro-Lecture Video Creation of PCB Design)

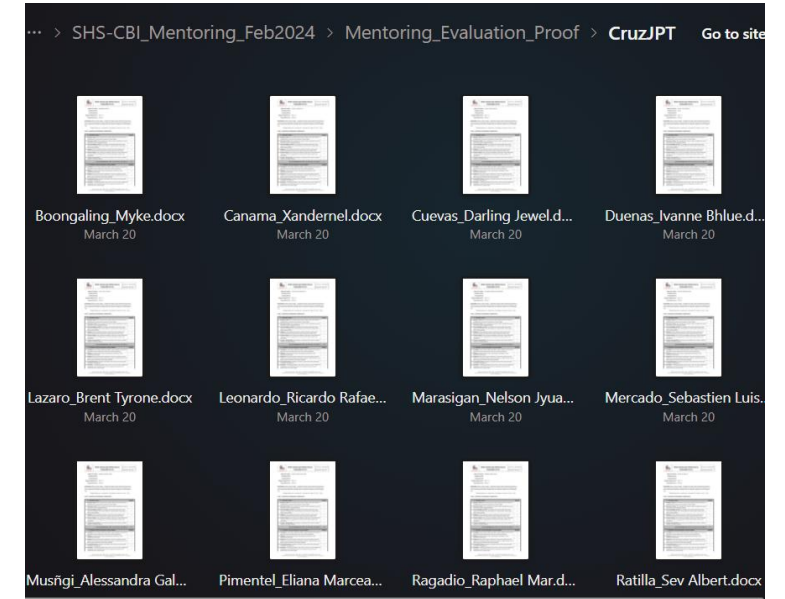
The School of Electrical, Electronics, and Computer Engineering (EECE) in coordination with the Senior High School Department participated in the community-based immersion program which aims to create a web-based project that is aimed to expose student trainees with the necessary skills to create Reactive Web Applications that will help the wider community to do their data management with the help of a user-friendly and responsive web applications.

The faculty members provided guidance and expertise throughout the immersion ensuring the successful completion of the project aligned with the United Nations Sustainable Goals.

The activity was held from February 5-16, 2024 via virtual mode.



Name	Modified
AGAPITO_RAPHAEL LIAN.docx	March 19
AGUILAR_ATHEA LOREEN.docx	March 19
ANABO_UINICE TRIXIE.docx	March 19
ARRIOLA, RAPHAEL SEBASTIAN.docx	March 19
BINAUHAN_JAMAIMA MADELAINE.docx	March 19
BRADY_KIEL DAVID.docx	March 19
CHUA_MARK ADRIANN.docx	March 19
GARCIA_GEOFFREY.docx	March 19
IRA_MARK RONALD.docx	March 19



The screenshot shows a Google Docs document titled "Group3_Software Documentation". The document content includes a paragraph about a return button, a code block for a Python class, and a video call overlay on the right side.

Paragraph 1:

the page.

Paragraph 2:

If a user decides to return an item, they can click the "Return" button. This triggers the Return method of the UserCart class. This method reads the current state of the catalog and the user's cart from the database, updates the stock of the returned item in the catalog, clears the user's cart, and then redirects the user to the home page.

Code Block:

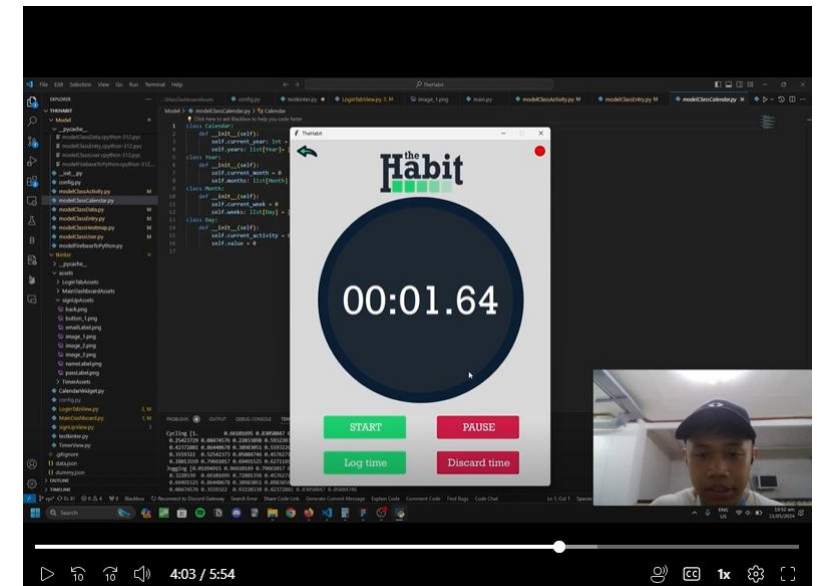
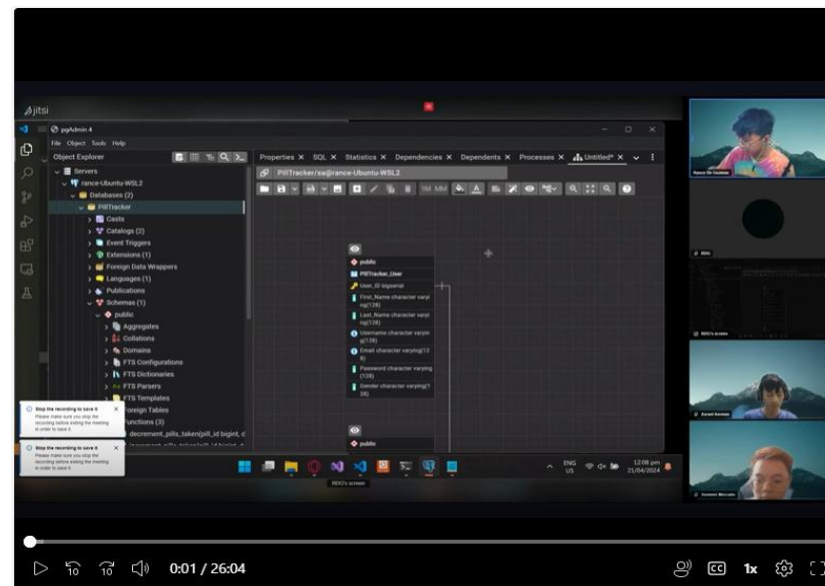
```
class UserCart:
    def __init__(self):
        pass
    def Return(self,e:ControlEvent):
        df = pd.read_csv('objects/catalog.csv')
```

Video Call Overlay:

The video call overlay on the right side shows three participants. The top participant is a man wearing a blue face mask. The middle participant is a man with a mustache, wearing a white shirt and a yellow and red patterned vest. The bottom participant is a man with a mustache, wearing a white shirt and a dark vest. The video call interface includes a list of participants on the left and a list of topics on the right.

The students were divided into six (6) groups and were mentored by six (6) faculty members who reviewed and evaluated the outputs of the students.

Schedules of faculty consultations were made flexible to allow students to balance their academic commitments with other responsibilities, making it easier for them to complete their requirements.



School of Information Technology



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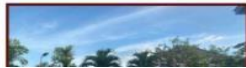
MISSION

To shape young men into leaders of character by providing an opportunity for them to develop lifelong skills in leadership, civic engagement, responsibility, and teamwork, inspired by the principles of the Order of DeKalby.

VISION

To be the premier youth leadership organization, preparing young men to lead productive and fulfilling lives as responsible citizens and leaders in their communities, guided by the values of brotherhood, integrity, and service.

Alleviate hunger



• Admin: Dashboard

• Admin: View Students

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Courses Integrated with Service Learning for 2Q2324 (ITS122L: Web Systems and Technologies Laboratory 2)

ITS122L is the identified course at the School of IT that is integrated with SOCI activities. In this course, students developed dynamic websites based on the specific needs of diverse client communities, under the mentorship of dedicated faculty members. The faculty not only assisted with the requirements but also evaluated the students' work, ensuring high-quality outputs. The activity was held from January 1-February 10, 2024.

Under the mentorship of dedicated faculty members, students navigated the complexities of aligning technical skills with community needs. The faculty's role extended beyond traditional teaching; they provided constant guidance throughout the development process and lent their expertise in evaluating the finished projects. This hands-on approach ensured that the students were not only learning theoretically but also applying their knowledge in meaningful ways.

Website Link



Community-Based Immersion

Work Assignment

User Interface Design for Sustainability

Programs of Interest

BS Computer Science
BS Entertainment & Multimedia Computing
BS Information Systems
BS Information Technology

Office for Social Orientation and Community Involvement Programs



Activity

Find a real-world website/ application with an existing design that you think can be improved with sustainability in mind. Generate at least three ideas/ recommendations.

Expected output are wireframes developed using available user interface design tools such as Balsamiq, Sketch, Proto.io, Adobe XD, etc.

Community-Based Immersion



Office for Social Orientation and Community Involvement Programs

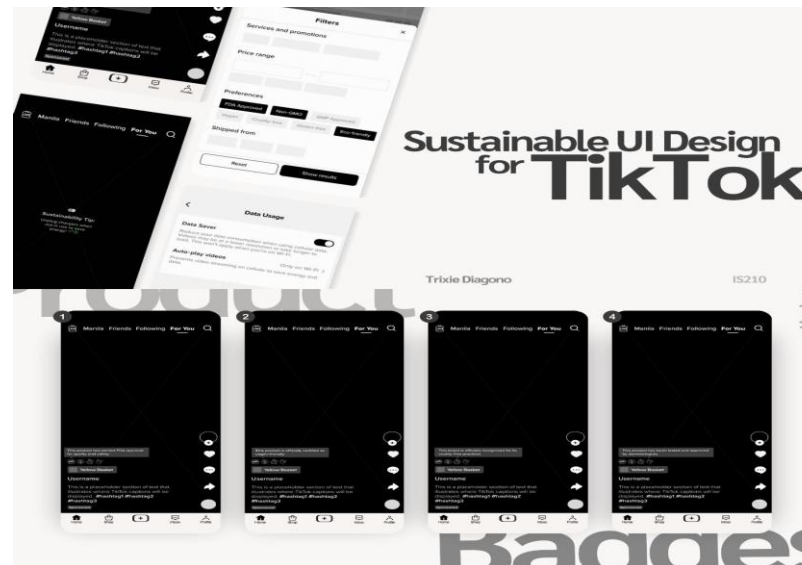


Senior High School Community-based Immersion Program (SDG 9-1: User Interface Design for Sustainability)

The recent Senior High School CBI Program under UNSDG 9-1: User Interface Design for Sustainability provided students with a unique opportunity to engage in community work directly related to their chosen undergraduate degree programs. This initiative allowed students to apply their academic knowledge in practical settings, significantly enhancing their learning experience while making a positive impact on the communities they served.

The program was held on February 5-16, 2024.

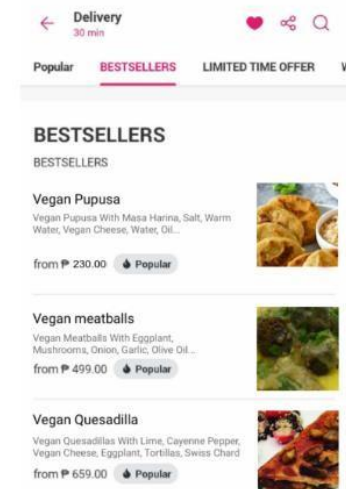
A key aspect of this activity was its alignment with the United Nations Sustainable Development Goals (SDGs). This proactive approach not only reinforced their technical skills but also instilled a sense of social responsibility, reminding them of the importance of sustainable practices in their future careers.



mix & match outfit

Angel Custodio

Screen 7



Community-Based Immersion

Work Assignment

User Acceptance Testing Activity

Programs of Interest

BS Computer Science
BS Entertainment & Multimedia Computing
BS Information Systems
BS Information Technology

Office for Social Orientation and Community Involvement Programs



Find a possible actual client as your case, gather requirements through interview and produce a Requirements Traceability Matrix (RTM) and write test cases based on RTM.

Community-Based Immersion



Office for Social Orientation and Community Involvement Programs



Senior High School Community-based Immersion Program (SDG 9-2: Software Testing: User Testing Acceptance Activity)

The recent Senior High School CBI Program under UNSDG 9-2: Software Testing: User Testing Acceptance Activity offered a valuable platform for students to immerse themselves in community work that aligns with their preferred undergraduate programs. This experience not only enriched their academic journey but also allowed them to actively engage with real-world applications of their studies, fostering a deeper understanding of their chosen fields.

The program was held on February 5-16, 2024.

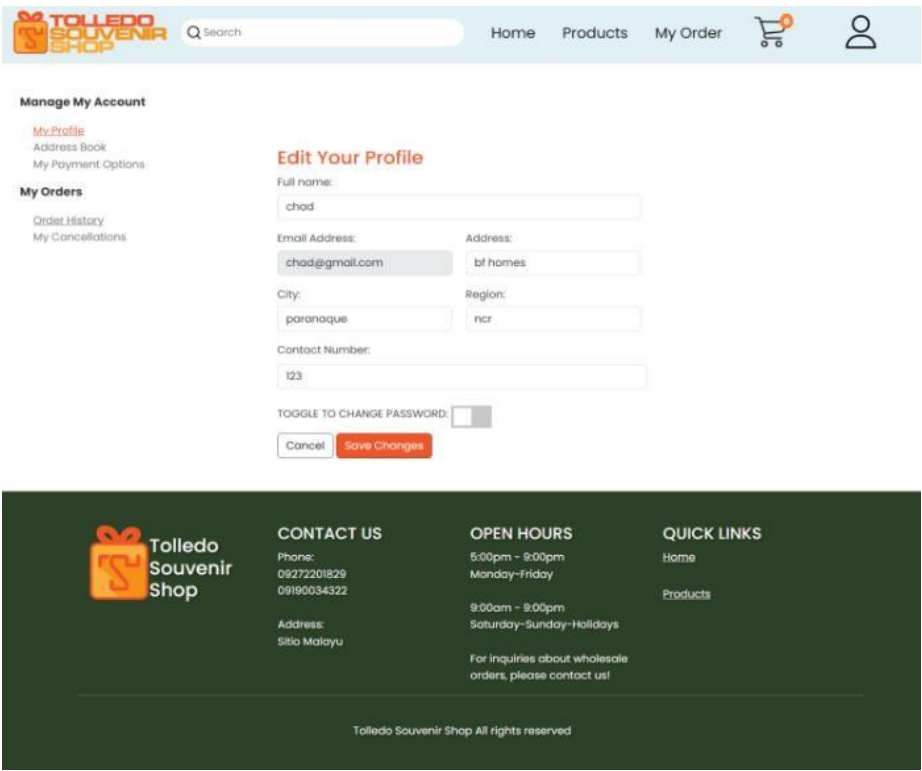
Overall, the activity successfully bridged the gap between academic learning and community service. By aligning with SDG 9-2, it demonstrated how educational institutions can play a crucial role in promoting sustainable and inclusive industrial practices. This activity not only enhanced students' technical abilities but also instilled a sense of social responsibility, preparing them to contribute positively to their future industries.

Table 2: Test to Verify Donation Functionality

#	TS1
Title	Verify Donation Functionality
Description	To test different attempts in order to verify if the page is functionable and trustworthy.

Test Case #	Summary	Dependency	Pre-condition	Post-condition	Execution Steps	Output
Amount_01	Select Amount to donate		Look for the 5 USD option	Move to Next page	1. Tick box that says "5 Trees" 2. Click Next	Redirected the user to the details page
Details_01	Fill up the text boxes with necessary information		Input all valid details into the text boxes	Move to Payment Page	1. Input Display Name 2. Input a Valid Email 3. Input Valid Mobile number 4. Click next	User gets sent to the Payment Page

Requirements Traceability Matrix					
Business: Kumori Japanese Bakery and Cafe					
Req. ID	Requirement Description	Justification	Test Case	Test Results	Notes
1	Landing Page	Starting point with website/page visitors	TC1	Pass	Upon Logged in User can move freely inside the website/page
2	Login	Let account holders access their information, prompts, and create an account.	TC3, TC4, TC5, TC6, TC7	Fail	Users must check the requirements either password or email and reCAPTCHA's check button
3	Order/Add to Cart	The main purpose of the website/page giving the access of all the products of Kumori		Not Executed	Users must provide information about their location for successful delivery



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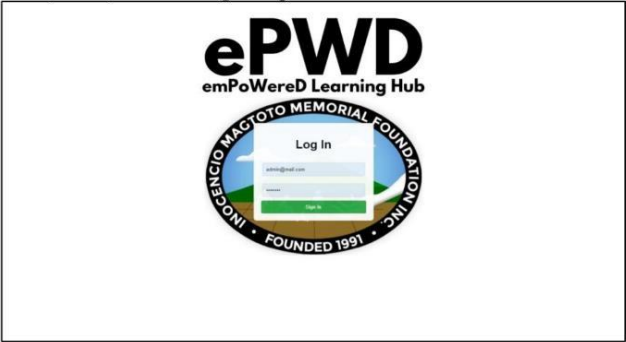
Courses Integrated with Service Learning for 3Q2324 (ITS122L: Web Systems and Technologies Laboratory 2)

In the ITS122L course, students were assigned a significant project: developing dynamic websites tailored to the needs and requirements of their chosen communities. This initiative was part of the course's integration with social orientation and community involvement activities, emphasizing practical, real-world application of web development skills.

The activity was held from April 1-May 10, 2024.

Faculty members played a crucial role throughout the project, providing guidance and mentorship in understanding and fulfilling the project requirements. They also participated in evaluating the students' work, ensuring that the output met the necessary standards.

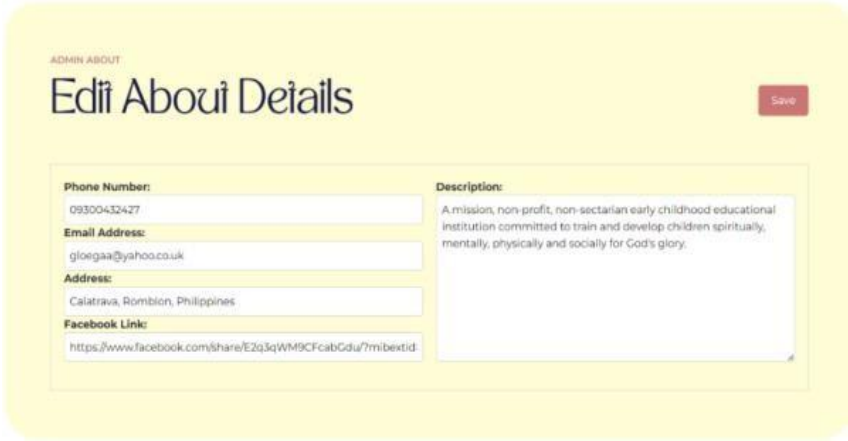
Admin, Teacher, Parent, or Student Log-in Page



Admin Dashboard



Teacher Dashboard



School of Mechanical and Manufacturing Engineering



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W E B I N A R

Sponsored by: School of Mechanical and Manufacturing Engineering

FREE REGISTRATION



<https://forms.office.com/r/4R2NcyKyAP>

SCAN TO REGISTER or CLICK the LINK

Car Air-conditioning, Basic Concepts, Maintenance and Business Start-up Webinar

20 JANUARY 2024
10:00AM – 12:00NN

SPEAKERS



IGMEDIO F. ISLA JR.

Professional Mechanical Engineer
Master of Engineering Program Mechanical Engineering, Mapua Institute of Technology, 2002
BS Mechanical Engineering, Mapua Institute of Technology, 1996



MANUEL L. VENTURA

Professional Mechanical Engineer
BS Mechanical Engineering, Mapua Institute of Technology, 1984



EDWARD B.O. ANG

Professional Mechanical Engineer
Doctor of Philosophy in Mechanical Engineering, De La Salle University
MS Mechanical Engineering, Mapua Institute of Technology, 2015
Master of Business Administration, Pamantasan ng Lungsod ng Maynila, 1995
BS Mechanical Engineering, Mapua Institute of Technology, 1992

Office for Social Orientation and Community Involvement Programs



Webinar on Car Airconditioning Basic Concepts, Maintenance and Business Start-up

The School of Mechanical, Manufacturing and Energy Engineering held a free webinar on car airconditioning basic concepts, maintenance and business start-up via Zoom Meeting on January 20, 2024. The webinar was attended by almost 100 participants.

The 2-hour webinar which was led by the faculty of the School of MME, aimed to share knowledge and expertise on car airconditioning system. The speakers also discussed topics on how to open a business on car airconditioning and its requirements.

A Question and Answer portion was allotted to answer the queries of the participants regarding the topics discussed.





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W E B I N A R

Sponsored by: School of Mechanical, Manufacturing and Energy Engineering
(SMME)

FREE REGISTRATION



<https://forms.office.com/r/3y0fUyS2vv>

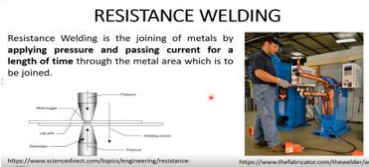
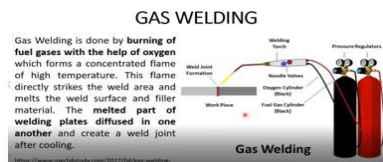
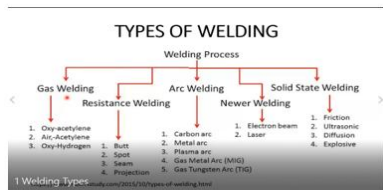
SCAN TO REGISTER or CLICK the LINK

Shielded Metal Arc Welding (SMAW) with Business Start-up Orientation

06 July 2024

10:00 A.M. – 12:00 NN

WELDING TYPES



Office for Social Orientation and Community Involvement Programs



MAPÚA
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Webinar on Shielded Metal Arc Welding with Business Start-up Orientation

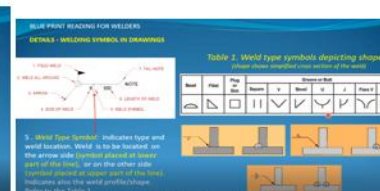
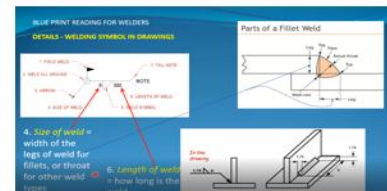
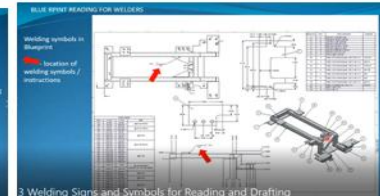
On July 6, 2024, the faculty members of the School of Mechanical, Manufacturing, and Energy Engineering conducted a free webinar on Shield Metal Arc Welding combined with a Business Start-up Orientation via Zoom Meeting. The event aimed to equip the participants with both technical skills in welding and essential knowledge for starting and managing a business. The webinar was attended by students and residents from Mapua's adopted communities.

The workshop was a success, providing participants with valuable skills and knowledge. The technical training in SMAW enhanced their practical capabilities, while the business orientation sessions equipped them with the tools needed to start and manage their own businesses. Feedback from participants was overwhelmingly positive, with many expressing appreciation for the integration of technical and business education.

WELDING SIGNS AND SYMBOLS FOR READING AND DRAFTING



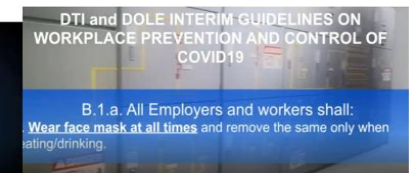
WELDING QUALITY CONTROL



New Normal Work Place Protection



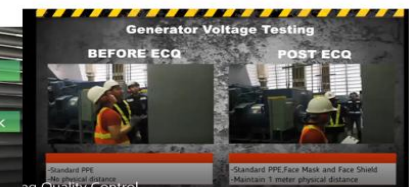
New Normal Work Place Protection



New Normal Work Place Protection



New Normal Work Place Protection



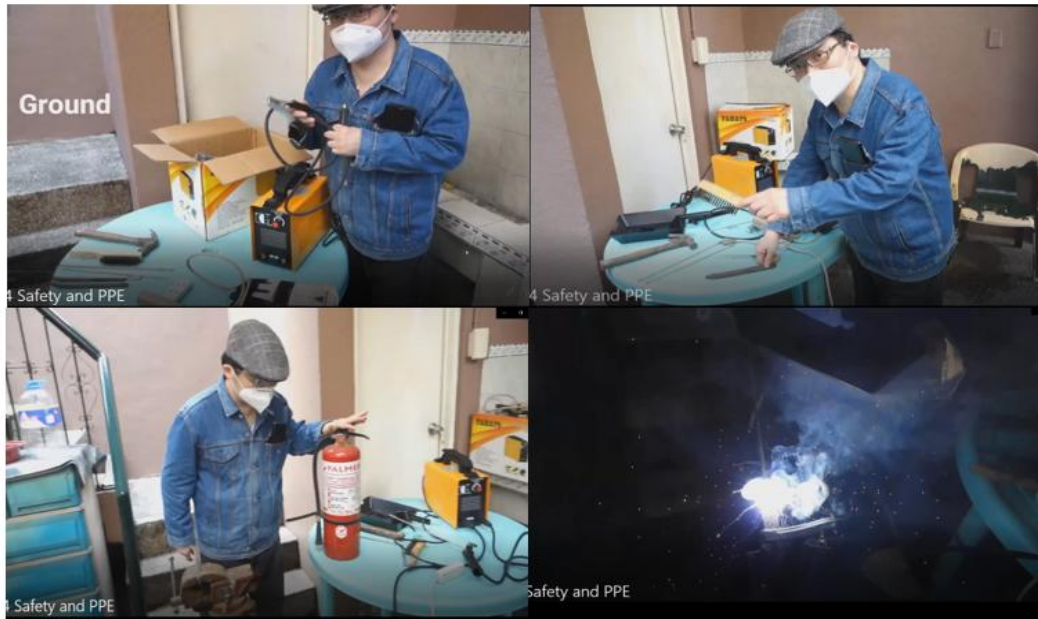
Office for Social Orientation and Community Involvement Programs



WELDING SAFETY AND PERSONAL PROTECTIVE EQUIPMENT



GOVERNMENT REQUIREMENT FOR A WELDING BUSINESS



STEPS & REQUIREMENTS FOR THE BUSINESS PERMIT

1) Secure the initial requirements:

- ☐ Accomplished Application Form
- ☐ DTI Certificate of Registration
- ☐ Contract of Lease or Transfer Certificate of Title
- ☐ Sketch/Picture of the business location (incl. front and interior of shop)
- ☐ Barangay Clearance
- ☐ Community Tax Certificate (Cedula)
- ☐ SSS Certificate

STEPS & REQUIREMENTS FOR THE BUSINESS PERMIT

2) Secure Permits and Clearances

- ☐ Building permit and Electrical Inspection Certificate
- ☐ Certificate of Occupancy
- ☐ Locational/Zoning Clearance

STEPS & REQUIREMENTS FOR THE BUSINESS PERMIT

- 3) File your Application Form with all the requirements to the Business Permit and Licensing Office (BPLO)
- 4) An assessor will assess your application fees
- 5) Submit your application requirements, along with the Official Billing Assessment

STEPS & REQUIREMENTS FOR THE BUSINESS PERMIT

- 6) Pay the necessary payment fees for the permits and licenses
- 7) Obtain a Fire Safety Inspection Permit
- 8) Obtain a Temporary Sanitary Permit
- 9) Submit all requirements, along with the Fire Safety Inspection Permit and Temporary Sanitary Permit
- 10) Release of Mayor's Permit

School of Media Studies



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OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Creation of Video Animation on Road Courtesy

To promote road courtesy 101 to passengers/commuters, motorists, and pedestrians, the School of Media Studies created an animation video about Road Courtesy.

The animation highlights key behaviors such as etiquettes in commuting, driving, passenger etiquettes, and pedestrian etiquettes. By disseminating road courtesy messages through animated content, authorities can increase awareness and engagement among the public, driving home the importance of safe and respectful behavior on the road.

In conclusion, the fusion of animation and road courtesy presents a compelling opportunity to promote safer and more harmonious interactions among road users.



School of Health Sciences



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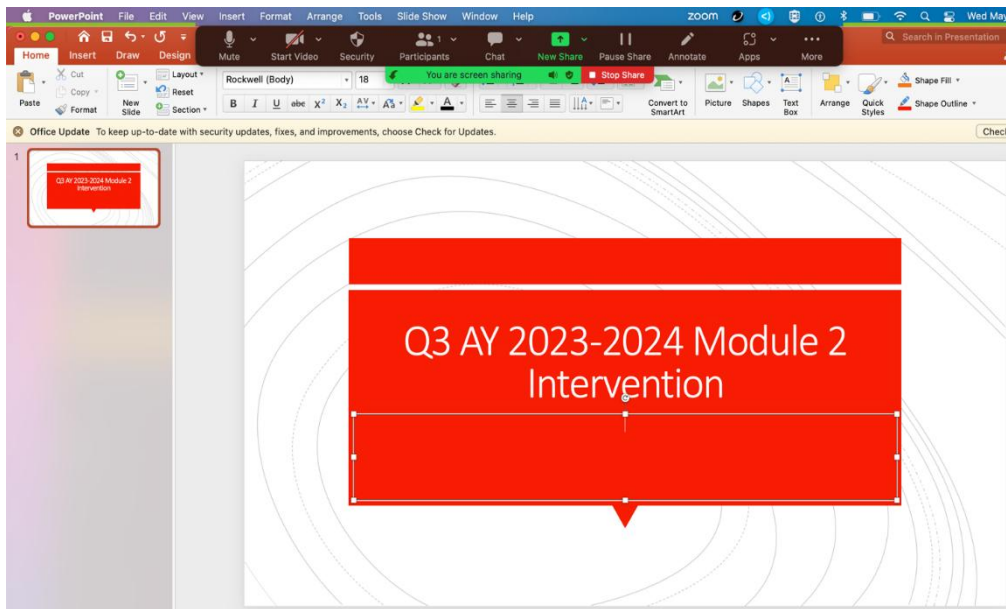
Department of Liberal Arts



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Office for Social Orientation and Community Involvement Programs

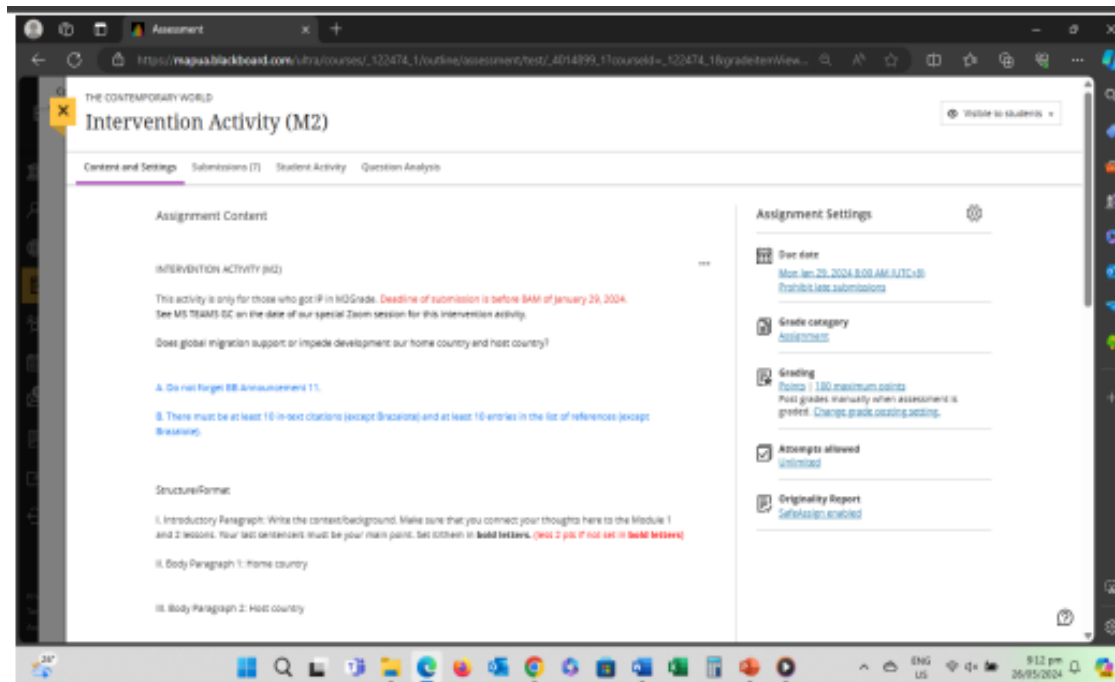


Intervention Program for DLA Courses

In line with the initiative to help Mapua students who obtained IP grades, the Department of Liberal Arts offered an intervention program during the 2nd Quarter and 3rd Quarter of AY2023-2024.

Students who participated were given the chance to submit certain requirements and assessments to help them obtain a passing grade.

During their sessions, students were also encouraged to reflect on their experiences and consider how they can apply what they have learned to their own lives and future endeavors.



Department of Mathematics



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OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Point-Slope Form of a Line
Slope-Intercept Form of a Line
How to Draw a Line

A L E A P

Alternative Learning Equivalency and Accreditation Program

Micro-Lecture series adapted from the learning strands of the Alternative Learning System (ALS) of the Department of Education (DepEd)



Office for Social Orientation and Community Involvement Programs

Office for Social Orientation and Community Involvement Programs



Creation of Micro-Lecture Videos and Assessments for Alternative Learning Equivalency and Accreditation Program (ALEAP) Learning Strand 3: Mathematical and Problem Solving Skills

The Department of Mathematics continues its effort in the creation of Micro-Lecture Videos (MLVs) for the out-of-school youths under the Alternative Learning Equivalency and Accreditation Program (ALEAP) of Mapua University. The objective of the said program is to help the students to prepare for their upcoming qualifying exam and to further enhance their skills in solving mathematical and verbal problems.

The Dunong Lingkod website of Mapua University stores the MLVs where learners can freely access the site. Assessments are also provided at the end of each MLV to check the student's learning.

<https://dunonglingkod.mapua.edu.ph/>

The activity was held from 4th Quarter 2022-2023 to 3rd Quarter 2023-2024.

AN slope-int form of line-graph aleap 2024 / Anonymous - May 26 Mathematics fo To exit full screen, press [esc] School - ALEAP VEED

Slope-Intercept Form of a Line
How to Draw a Line

A L E A P

Alternative Learning Equivalency and Accreditation Program

Micro-Lecture series adapted from the learning strands of the Alternative Learning System (ALS) of the Department of Education (DepEd)

MAPÚA UNIVERSITY

Office for Social Orientation and Community Involvement Programs

Mathematics for Junior High School - ALEAP VEED

PYRAMID

A L E A P

Alternative Learning Equivalency and Accreditation Program

Micro-Lecture series adapted from the learning strands of the Alternative Learning System (ALS) of the Department of Education (DepEd)

In this session we will talk about pyramid.

MAPÚA UNIVERSITY

Office for Social Orientation and Community Involvement Programs

Estimation in Everyday Life

A L E A P

Alternative Learning Equivalency and Accreditation Program

Micro-Lecture series adapted from the learning strands of the Alternative Learning System (ALS) of the Department of Education (DepEd)

This is Joseph D.G. Santos.

son on Estimation in Everyday Life with Caption

Office for Social Orientation and Community Involvement Programs

Department of PE and Athletics



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OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Street Crisis Management

On September 29, 2024, the Physical Education and Athletics Department initiated a seminar-workshop on Street Crisis Management for the security personnel of Mapúa University. The primary objective of the event was to provide essential training to security personnel in basic self-defense, pinning down, and knife defense techniques, ensuring the safety and security of the university campus.

Throughout the workshop, security personnel were encouraged to engage in practical application of the techniques immediately after each instructional session. This hands-on approach ensured that participants had a firm grasp of the skills being taught and could apply them effectively in real-life situations.

The "Street Crisis Management" seminar workshop was a resounding success. The collaborative effort between the Physical Education and Athletics Department's faculty members, and the dedicated security personnel highlighted the importance of preparedness and practical training in enhancing campus safety. The skills and knowledge gained during this workshop will undoubtedly contribute to a safer and more secure university environment.



Senior High School Department



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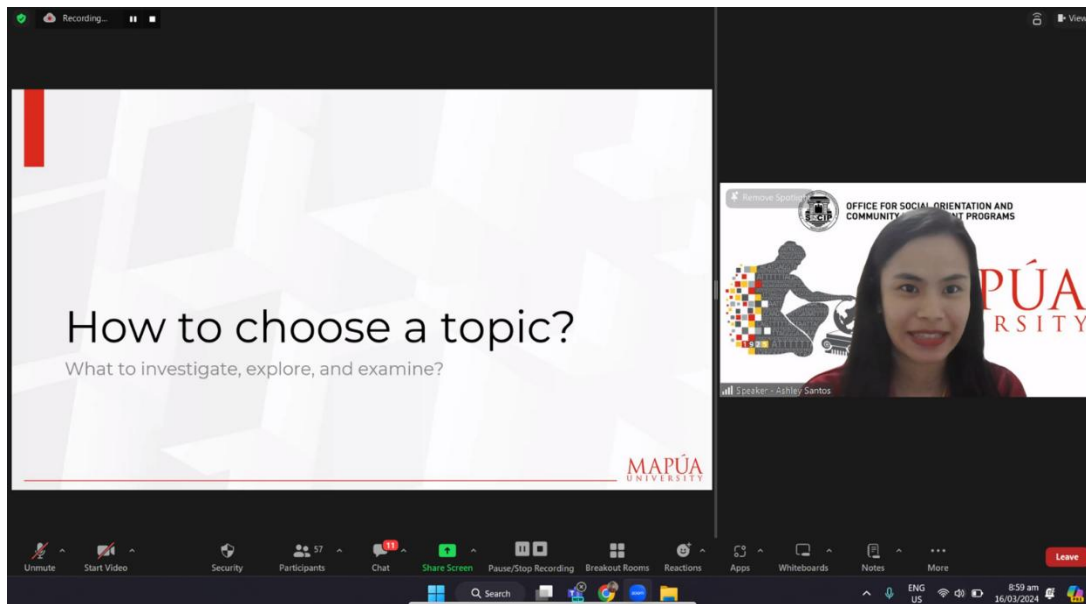
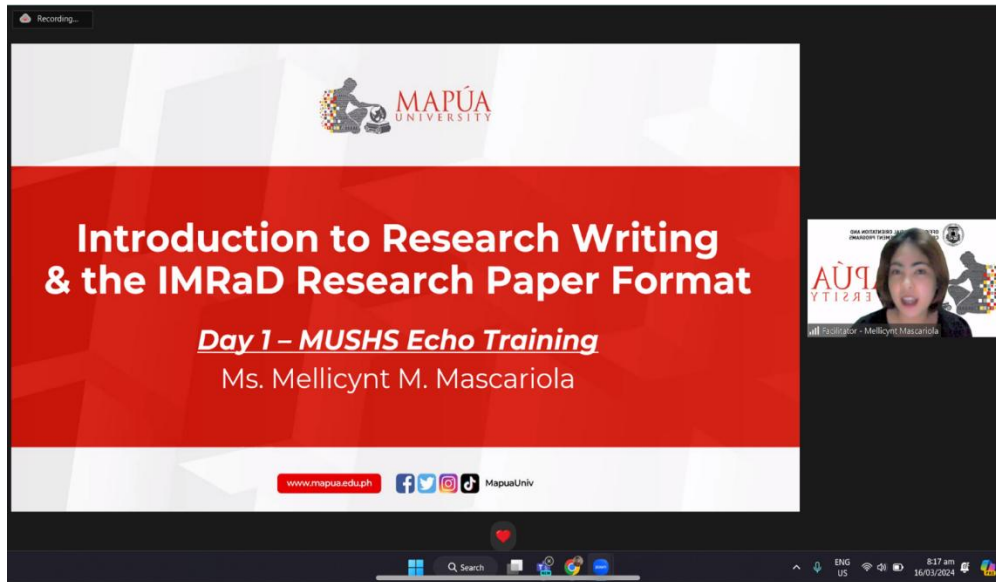
OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Research Workshop: Introduction to Qualitative Research Design

The Senior High School Department of Mapua University offered a free webinar to provide valuable insights onto two primary research designs: quantitative and qualitative. The webinar was held on March 16, 2024 via Zoom meeting. It was attended mostly by teachers and students.

The webinar aimed to equip the participants with the tools to capture the richness of human experiences and perspectives in research. Additionally, the webinar aimed to impart the importance of variables, data collection, and statistical techniques to draw meaningful conclusions.

A Question and Answer portion was allotted in the program to give the participants the chance to raise their questions and clarifications within the concepts discussed.



Office for Social Orientation and Community Involvement Programs



Conceptual Framework

- sets forth the standards to define a research question and find appropriate, meaningful answers for the same.
- connects the theories, assumptions, beliefs, and concepts behind your research and presents them in a pictorial, graphical, or narrative format.
- illustrates the expected relationship between your variables.
- defines the relevant objectives for your research process and maps out how they come together to draw coherent conclusions.



AI Technology in Research Writing



Qualitative Research: Definition

- Qualitative research is a research strategy that usually emphasizes words rather than quantification in the collection and analysis of data. (Bryman, 2008)



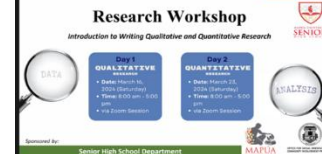
Types of Sampling Techniques in Qualitative Research

1. Theoretical Sampling
2. Purposive Sampling
3. Convenience Sampling
4. Snowball Sampling



Qualitative Research: Data Analysis and Interpretation

Charlene L. Jadia





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COMMUNITY INVOLVEMENT PROGRAMS



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Speaker - Ceraon, Christopher

Office for Social Orientation and Community Involvement Programs

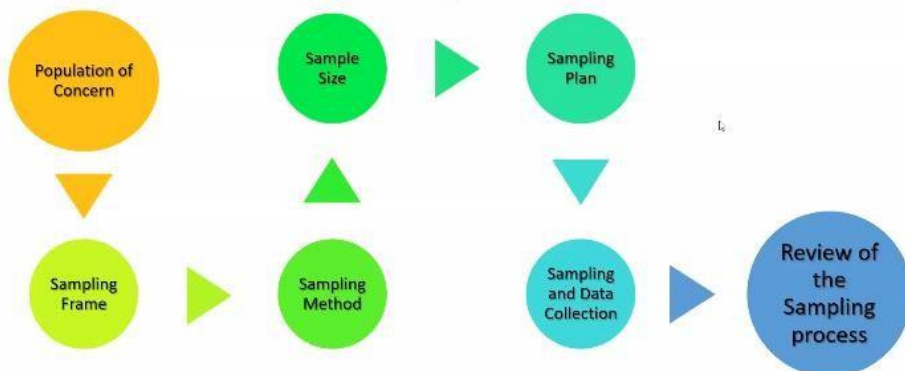


Research Workshop: Quantitative Research Design

The Senior High School Department of Mapua University offered a free webinar to provide valuable insights onto two primary research designs: quantitative and qualitative. The 2nd day of webinar was held on March 23, 2024 via Zoom meeting. It was attended mostly by teachers and students.

On the second day of the webinar, participants delved into the intricacies of numbers, figures, and statistical analysis. The session equipped them with the skills to design robust surveys, experiments, and observational studies, highlighting the importance of variables, data collection, and statistical techniques to derive meaningful conclusions. Practical examples further enhanced their proficiency in quantitative data analysis.

The Sampling Process



Senior High School Department



DATA COLLECTION: RESEARCH INSTRUMENT

VALIDITY

A research instrument that is either created from scratch or a modified questionnaire should be validated by individuals / professionals who are experts in the field or topic of the research.

For us in the SHS Department:

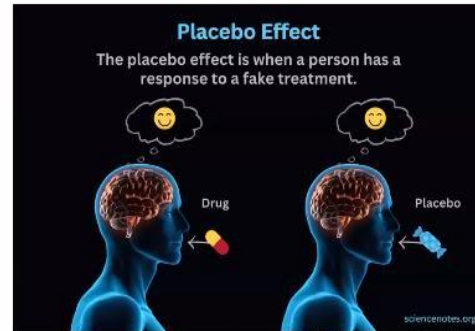
- (1) Expert in the field/topic of the research.
- (1) Duly Licensed Psychometrician, and
- (1) Thesis Adviser or Panel*.

Senior High School Department



Randomized Controlled Trials (RCTs)

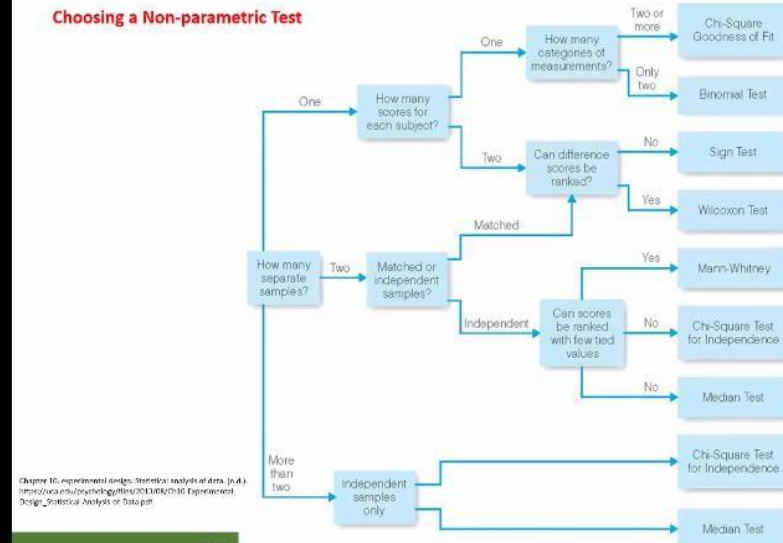
- In RCTs, participants are randomly assigned to either an experimental group (receiving the treatment or intervention being tested) or a control group (receiving no treatment or a placebo).
- Random assignment helps to ensure that any differences observed between groups are due to the treatment and not other factors.



Senior High School Department

Webinar-Workshop Series

Choosing a Non-parametric Test



Senior High School Department

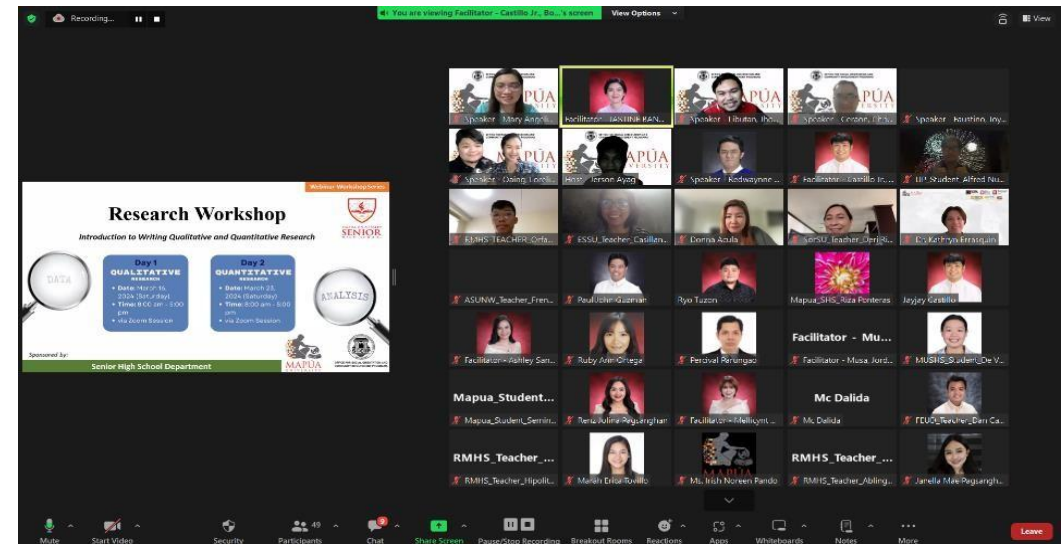
Webinar-Workshop Series

GUIDELINES IN WRITING THE ABSTRACT

REASON FOR WRITING	What is the importance of the research? Why would a reader be interested in the larger work?
PROBLEM	What problem does this work attempt to solve? What is the scope of the project? What is the main argument, thesis, or claim?
METHODS	An abstract of a scientific work may include specific models or approaches used in the larger study. Other abstracts may describe the types of evidence used in the research.
RESULTS	An abstract of a scientific work may include specific data that indicates the results of the project. Other abstracts may discuss the findings in a more general way.
IMPLICATIONS	How does this work add to the body of knowledge on the topic? Are there any practical or theoretical applications from your findings or implications for future research?

Senior High School Department

Webinar-Workshop Series



Institutional Activities



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**OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS**

Solar Powered Electricity Source for Kanawan Integrated School, Morong, Bataan

The Mapua University in partnership with the National Association of Mapua Alumni (NAMA) successfully inaugurated its solar energy project for Kanawan Integrated School in Morong, Bataan last June 17, 2024.

The activity was attended by the officers of NAMA headed by its President, Mr. Edwin Raganit. Also present in the event are the staff of Mapua-SOCIP Office headed by Engr. Joyrence Mervin Q. Agas, the administration personnel of Kanawan Integrated School lead by Mr. Leovigildo E. Domingo, Jr. , and the Chieftain of Kanawan.

A short program was prepared to formally unveil the solar powered source donated by NAMA.

After the program, the NAMA officers and the Mapua-SOCIP staff handed over some token of appreciation for the community residents as gratitude for their cooperation and assistance during the installation of the solar powered energy.

To wrap up the activity, the *Aeta* kids in the community performed a local dance to show their appreciation and gratitude to the donors of the solar panel.

Solar power is part of the initiatives of Mapua University to contribute to the attainment of the United Nations Sustainable Development Goal #7: Affordable and Clean Energy.

Mapua University aims to reach out to more far-flung communities where solar energy is feasible.



Office for Social Orientation and Community Involvement Programs





Office for Social Orientation and Community Involvement Programs

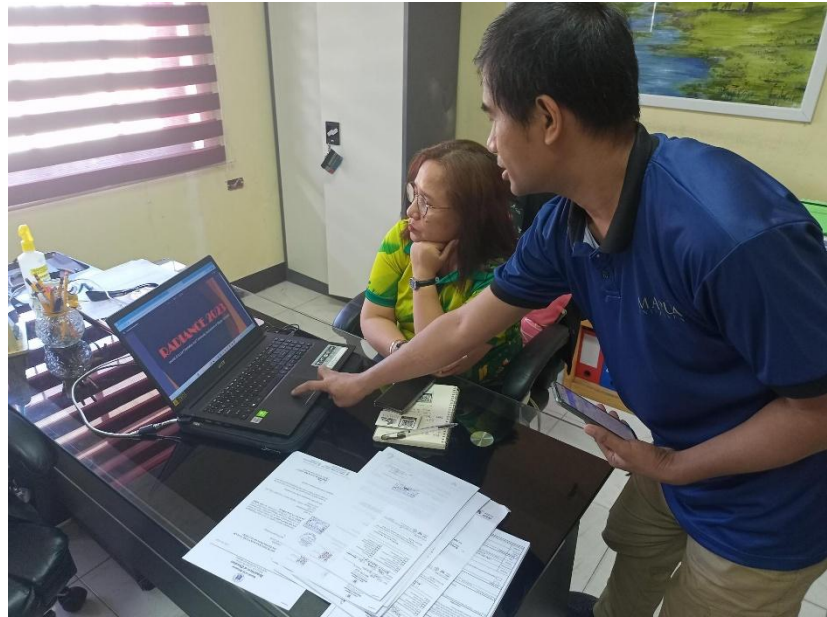


Addressing Learning Poverty: Promotion of Mapúa Free Online Resources on Massive Online Tutorials and Online Reading Program in Isabela

On July 8-15, 2024, the Office for Social Orientation and Community Involvement Programs (SOCIP) headed to Isabela Province to promote the initiative of YGC's Helen Y. Dee on massive reading program. The objective of the program is to enhance literacy skills, and to foster culture of reading to elementary school children.

The group of Mapua visited the different elementary schools in the province to coordinate how the massive reading program will be beneficial to the students and the school in general. Coordination meeting with the DepEd-Division of Isabela was also initiated to introduce the program of Mapua.

By improving the literacy skills of students through enhanced reading comprehension and vocabulary, it will not only support their academic growth but will also enrich the students' personal development.



Office for Social Orientation and Community Involvement Programs



The team of Mapua visits the different schools in Isabela to promote the massive reading program



Addressing Learning Poverty: Promotion of Mapúa Free Online Resources on Massive Online Tutorials and Online Reading Program in Apayao

From August 7-19, 2024, the Office for Social Orientation and Community Involvement Programs (SOCIP), led by Engr. Joyrence Mervin Q. Agas, visited various schools in Apayao. Their mission was to promote the University's free online resources and reading program, emphasizing the Dunong Lingkod website and Snippets card.

This initiative aimed to introduce educators to tools that could enhance teaching efficiency and simplify administrative tasks. The orientation featured in-depth discussions on the Dunong Lingkod website's role in educational management and how the Snippets card provides easy access to important resources. Sixteen schools in Apayao province participated in the program.

During the visits, Engr. Agas presented the University's education program, highlighting the contents of the Dunong Lingkod website, which includes micro-lecture videos (MLVs) and snippets—short videos for Grade 1 to 3 students. He underscored that these resources are freely available for the community's use and demonstrated how to access the website and its various topics.

This effort aims to empower educators with valuable resources, ultimately enhancing the educational experience for both teachers and students in Apayao.



Office for Social Orientation and Community Involvement Programs



Installation of Solar Powered Electricity Source in Apayao for Communities affected by Local Communist Armed Conflict

From August 7 to 19, 2024, Mapua University through its Office for Social Orientation and Community Involvement Programs (SOCIP), under the leadership of Engr. Joyrence Mervin Q. Agas, embarked on a transformative journey across the municipalities of Connor, Kabugao, Pudtol, and Sta. Marcela in Apayao. Their mission: to install solar-powered electricity in twenty-one barangays, bringing light and sustainability to these communities.

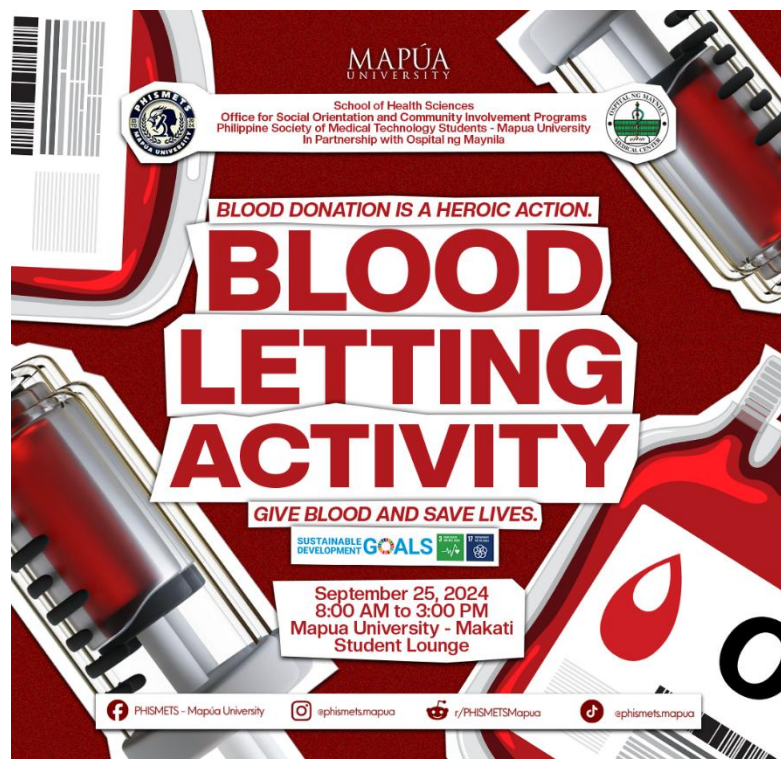
The primary goal of this program was to enhance the community's access to clean, renewable energy. By installing solar panels on the barangay halls, SOCIP aimed to independently power essential office equipment, including one laptop, one electric fan, and one printer in each barangay. This initiative ensures that even during power disruptions, barangay operations can continue seamlessly, allowing uninterrupted service to the community and reducing overall power consumption.

Through this initiative, SOCIP not only brought immediate improvements to the barangay halls' operations but also set a precedent for sustainable development and community empowerment. Their efforts stand as a beacon of hope, illuminating the path towards a cleaner, more resilient energy future for all.



Office for Social Orientation and Community Involvement Programs





Office for Social Orientation and Community Involvement Programs



Blood Donation Activity

The Mapua University through its Office for Social Orientation and Community Involvement Programs (SOCIP) in collaboration with the School of Health Sciences and in partnership with the Ospital ng Maynila held a Blood Donation Activity on September 25, 2024 at the Student Lounge of Mapua-Makati Campus, Makati City.

The primary objective was to collect blood units to support the Ospital ng Maynila (government hospital) in addressing the need for blood supplies for the community.

Out of the several people who went to the site to be a screened as possible donor, a total of forty-one (41) successfully passed the screening where 20,500 cc volume of blood were collected . This overwhelming response from the students and staff of Mapua-Makati is a testament of their generosity and willingness to support a vital cause. The blood collected will significantly contribute to saving lives and supporting medical emergencies.





Mapua-Makati's overwhelming support for a vital cause



Installation of Solar Panels and Addressing Learning Poverty in Selected Barangays of Three Municipalities in Isabela Province

Between October 28 and November 12, 2024, Mapua University's Office for Social Orientation and Community Involvement Programs (SOCIP), headed by Engr. Joyrence Mervin Agas, executed a key project addressing both solar panel installation and learning poverty. This effort, supporting UN SDG#7 (Affordable and Clean Energy) and SDG#4 (Quality Education), involved 30 barangays across San Mariano, Jones, and Echague in Isabela Province.

With backing from the Office of the Presidential Adviser for Peace, Reconciliation, and Unity (OPAPRU), the team installed solar panels tailored to each barangay's energy needs. The targeted barangays included Napaliong, Minuri, Sto. Domingo, Villa Bello, and others, demonstrating solar energy's cost-effective and sustainable potential in ELCAC areas.

Furthermore, the introduction of ALEAP Online and reading programs tackled immediate educational needs, offering vital resources to reduce learning poverty. This holistic initiative underscores Mapua University's dedication to integrated community projects that foster both renewable energy adoption and enhanced educational access.



Office for Social Orientation and Community Involvement Programs



In Photos: Mapua University fosters renewable energy adoption in various barangays across Isabela Province, fulfilling UN SDG#7.





In Photos: Solar panel installations illustrate the cost-effective potential of renewable energy.



Office for Social Orientation and Community Involvement Programs



In Photos: Engr. Joyrence Mervin Agas introduces Mapua's free online learning resources to combat learning poverty and enhance access to education.





Office for Social Orientation and Community Involvement Programs



Blood Donation Activity

On November 19, 2024, Mapúa University through the Office for Social Orientation and Community Involvement Programs (SOCIP) conducted a Blood Donation Activity aimed at fostering community spirit and contributing to public health in relation to SDG3: Good Health and Well-Being of the United Nations Sustainable Development Goals. The activity was organized in collaboration with the House of Investments and Ospital ng Maynila. It was held at the Student Lounge of Mapua Makati Campus from 8:00 AM-4:00 PM.

The activity started early in the morning with a steady flow of donors arriving to participate. The medical team from Ospital ng Maynila handled the registration process, ensuring that all necessary details in the health questionnaires were completed accurately. The medical doctors also conducted preliminary health checks to confirm the eligibility of each donor.

The blood donation activity gathered a total 37,500 cc of blood from 75 successful blood donors. This surpassed the initial goal of the organizers. The donation will provide critical support to patients in need, including those undergoing surgery, receiving treatment for chronic illnesses, and victims of accidents or emergencies.



Office for Social Orientation and Community Involvement Programs



♦♦♦MORNING ACTIVITIES♦♦♦

Opening Prayer
Philippine National Anthem

Procession of Community Conference Host
Brgy. 837, Pandacan, Manila

Welcome Message:
P/B 837 James Raenel "Cholo" Del Rosario

Conference Overview: Ms. Alma A. Canlas
(SOCIP Technical Assistant, Mapúa University)

Presentation of Accomplishments for year 2024

Message from Community Representative

Evaluation of Mapua Community Activities

Lunch: 12PM - 1PM

♦♦♦AFTERNOON ACTIVITIES♦♦♦

Mapua's initiatives for 2025 on contributing to the
United Nations Sustainable Development Goals
Engr. Joyrence Mervin Q. Agas
Director, SOCIP - Mapúa University

Focused Group Discussion on Community-Proposed
projects for 2025

Presentation of Community-Proposed projects for 2025

Talent showcase of Brgy. 837

Pledge of Commitment and Lighting of Christmas Tree
with Simultaneous lighting of solar powered
streetlights along Pandacan (Manila)

Transfer of ComCon Symbolic Key to 2025 ComCon Host

Proclamation of 2026 ComCon Host

Closing Message of 2025 ComCon Host

Recessional

Masters of Ceremonies: Ms. Rowena Espiritu & Ms. Liza Penaranda

Office for Social Orientation and Community Involvement Programs



Community Conference 2024: Active Involvement in the Age of Artificial Intelligence

The Office of Social Orientation and Community Involvement Programs (SOCIP) successfully conducted its seventeenth (17th) Community Conference on 06 December 2024 at One Tagaytay Place Hotel Suite, Tagaytay City. This event marked the first face-to-face conference since the pandemic, bringing together seventy-one (71) community representatives, comprised of barangay chairmen and their councils.

With the theme “Active Involvement in the Age of Artificial Intelligence,” the conference aimed to reflect on social responsibility activities of the past year and plan for the future, aligning with the United Nations Sustainable Development Goals (UN SDGs).

A keynote address from Engr. Agas touched on the conference’s history and objectives, and the role of the community in achieving the UN SDGs. The event also included a workshop for brainstorming 2025 project proposals, with a commitment to focus on three Global Goals: Clean Water and Sanitation (SDG 6), Affordable and Clean Energy (SDG 7), and Peace, Justice, and Strong Institutions (SDG 16).

The conference concluded with the symbolic hanging of stars on a Christmas tree, representing support for the initiatives. Solar-powered streetlights were simultaneously lit in Pandacan, Manila. Host Barangay Chairman Del Rosario passed the Symbolic Key to the 2025 host, Brgy. 840 Zone 91, with Chairman Eduardo Espinola delivering the closing remarks.



Office for Social Orientation and Community Involvement Programs



In Photos: Highlights of the activities during Community Conference 2024. Community officials sharing their collaborative experiences with the University and, brainstorming project proposals for 2025 aligning their plans with the UN SDGs. The conference concludes with the symbolic transfer of the Key to the 2025 host barangay, wrapping up a productive event.



Barangay Tanod Skills Enhancement Seminar

On December 11, 2024, Mapua University through the SOCIP Office headed by Engr. Joyrence Mervin Q. Agas, led the Barangay Tanod Skills Enhancement Seminar at Brgy. San Andres, Tanay, Rizal. This seminar brought together 52 representatives from Brgy. San Andres and Brgy. Sto. Niño, including barangay tanods, police, officials, and members from diverse community sectors such as indigenous groups, youth, seniors, and women.

The seminar aimed to refresh knowledge on street crisis management and community safety protocols, while also emphasizing the essential qualities of effective peace and order officers. Engr. Agas and participants engaged in focus group discussions to review various crisis scenarios and appropriate resolution procedures.

In a thoughtful gesture, family-sized food packs were provided to participants, allowing them to share refreshments with their families, reflecting the community-oriented spirit of the event. Certificates for the seminar will be distributed during the next visit, marking another successful year in enhancing community safety skills.



DONATE BLOOD SAVE LIVES

December 17, 2024
8:30 AM - 3:00 PM

AV Room
Mapua Intramuros



Office for Social Orientation and Community Involvement Programs

Blood Donation Activity

Mapua University, in collaboration with Jose Reyes Memorial Medical Center (JRRMMC), successfully conducted a blood donation activity on December 17, 2024 at the AV3, Mapua University, Intramuros, Manila. This initiative was part of the university's ongoing commitment to community service and public health. The event aimed to encourage voluntary blood donation among students, faculty, and staff, contributing to a vital cause and supporting local healthcare facilities.

The blood donation activity was a resounding success. A total of 33,000cc units of blood were collected, surpassing the initial target set by the organizers. These donations will provide critical support to patients undergoing surgeries, receiving treatment for chronic illnesses, and victims of accidents and emergencies.

The event also had a significant impact on the university community. It promoted a culture of giving and highlighted the importance of social responsibility. Participants left with a sense of pride and fulfillment, knowing that their contributions could potentially save lives.

The blood donation activity at Mapua University was a clear demonstration of the impact that a united community can have. It served as a reminder of the importance of giving back and the difference that each individual can make. The success of this event sets a positive precedent for future initiatives and reinforces the university's commitment to public health and community service.



Office for Social Orientation and Community Involvement Programs



Student Activities



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**OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS**

NSTP Reading Program – 1st Trimester AY 2024-2025

For the First Trimester of the Academic Year 2024-2025, the National Service Training Program (NSTP) Office initiated a Reading Program. The program aims to improve the reading skills of school children. The program helps students overcome their difficulties in the English language through tutorial sessions.

Three (3) Elementary Schools in Pandacan, Manila - Bagong Barangay Elementary School, Beata Elementary School and Jacinto Zamora Elementary School committed to host the program. NSTP Students served as Student Volunteers (SVs) and conducted assessment sessions with the Student Learners (SLs) to determine their challenges and difficulties. Reading intervention was carried out on the succeeding session after the assessments. Forty (40) NSTP students participated in the program while five hundred fifty-seven (557) student learners from kinder to Grade 6 were assessed.



**Students Volunteers (SVs)
conducted assessment to
determine the challenges of the
students in the English subject
specifically reading.**

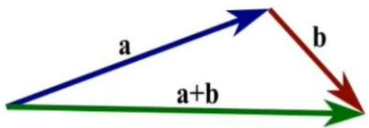


The Partner Elementary Schools
provided areas in the school
premises and their facilities for the
reading intervention.



Auxiliary Learning Resources

Introduction of Vectors



Creation of Micro-Lecture Videos for Junior High School Geometry

Hybrid outreach methods remain crucial for effective education and community support nowadays. In line with this, the Honor Society of Mapúa (HSM) continues to create micro-lecture videos (MLVs) to contribute to the Dunong Lingkod portal on the Mapúa University website, providing users with valuable digital lessons to aid their education. This initiative underscores the university's commitment to enhancing education and supporting the community through innovative and accessible learning resources.

The videos covered essential Physics concepts such as dimensional motion, vectors, kinematics, and the laws of motion. Following the lectures, a 20-item physics questionnaire was provided to assess viewers' understanding of the material.

The video creation ran from June 5 – July 5, 2024 via virtual mode.

Dot Product

aka Scalar Product

the sum of the products of corresponding components

Formula:

$$\langle x_1, y_1, z_1 \rangle \cdot \langle x_2, y_2, z_2 \rangle = (x_1)(x_2) + (y_1)(y_2) + (z_1)(z_2)$$

$$\begin{aligned} \langle 3, 3, 3 \rangle \cdot \langle 10, -6, 6 \rangle &= (3)(10) + (3)(-6) + (3)(6) \\ &= 30 + (-18) + 18 \\ &= 30 \text{ units} \end{aligned}$$

Auxiliary Learning Resources



GEOMETRY

3D Shapes

6. Sphere



3-dimensional solid figure that is perfectly round and every point on its surface is equidistant from the center

Properties:

No vertex
No edges
1 curved face

$$SA = 4\pi r^2$$

$$V = \frac{4}{3}\pi r^3$$

sixth is a sphere it is a three-dimensional solid figure that is perfectly round and every point on

Auxiliary



Kinematics

Given:

$$v_i = 3 \text{ m/s}$$

$$a = 4 \text{ m/s}^2$$

$$t = 2 \text{ s}$$

$$v_f = ?$$

v_f	v_i	Δx	a	t
✓	✓		✓	✓

$$\therefore v_f = v_i + at$$

$$F = ma$$

Auxiliary Learning Resources





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