

RADIANCE 2023

Journal of Social Orientation and Community Involvement of Mapúa University

INTRODUCTION

Consistent with its Mission and Vision, Mapúa University addresses community needs based on program expertise to address relevant social issues. Through its Office for Social Orientation and Community Involvement Programs (SOCIP), Mapúa University has been collaborating with different NGOs, government agencies, local government units and private agencies to create feasible and sensible projects for the betterment of the people in the community.

With the guidance of the United Nations Sustainable Development Goals, Mapúa University is working on key programs which focus on the achievement of the SDGs. Aside from this, the Extension Service Initiatives also direct the social and community involvement activities of Mapúa.



MAPÚA
UNIVERSITY



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

TABLE OF CONTENTS

Extension Service Initiatives	1-3
School of Architecture, Industrial Design and the Built Environment	4-7
School of Chemical, Biological and Materials Engineering and Sciences	8-9
School of Civil, Environmental and Geological Engineering	10-11
School of Electrical, Electronics and Computer Engineering	12-14
School of Information Technology	15-18
School of Manufacturing and Mechanical Engineering	19-21
School of Media Studies	22-23
School of Health Sciences	24-26
Department of Liberal Arts	27-31
Department of Mathematics	32-33
Senior High School Department	34-37
Institutional Activities	38-51
Student Activities	52-54



MAPÚA
UNIVERSITY



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

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.



MAPUA
UNIVERSITY



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

SOCIAL ORIENTATION AND COMMUNITY INVOLVEMENT INITIATIVES



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.



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.



MAPÚA
UNIVERSITY



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

SOCIAL ORIENTATION AND COMMUNITY INVOLVEMENT INITIATIVES



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.



MAPÚA
UNIVERSITY



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

School of Architecture, Industrial Design and the Built Environment



MAPÚA
UNIVERSITY



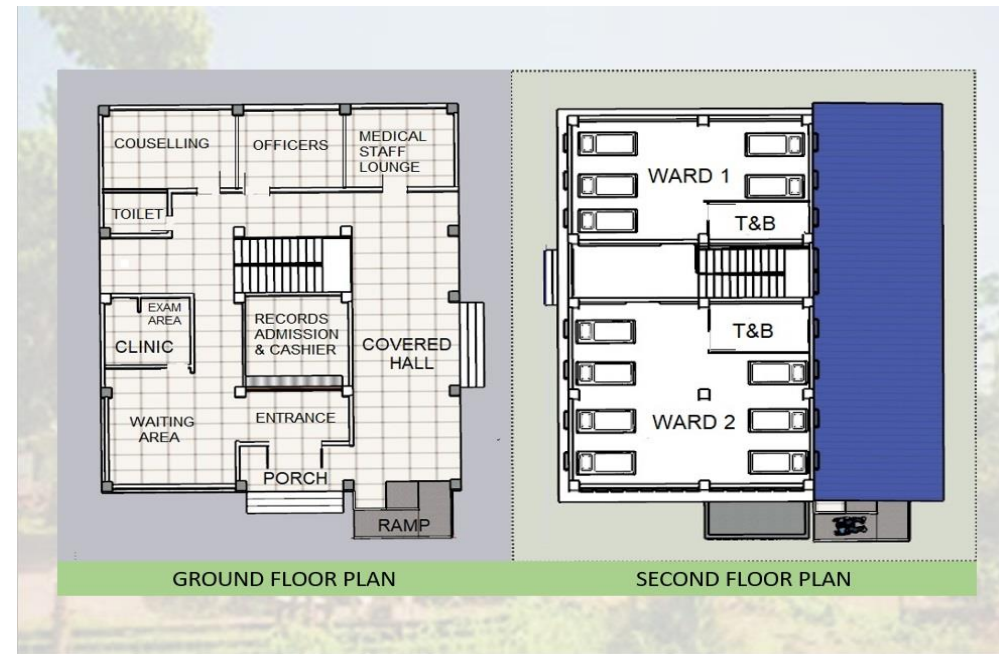
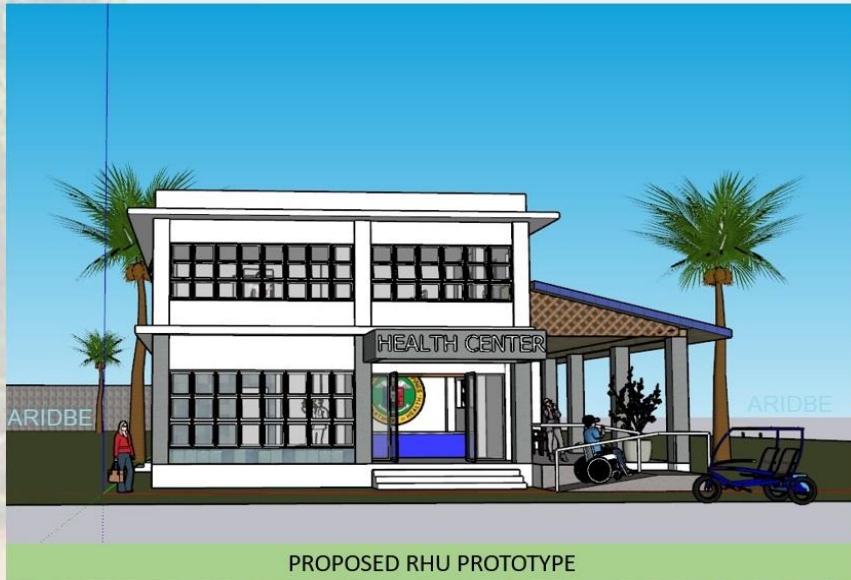
OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Architectural Design for Proposed Rural Health Units

The School of Architecture, Industrial Design, and the Built Environment presented several designs for the prototype building for a Rural Health Center. As a preliminary proposal presentation, perspective drawings of both exterior and interior were presented.

The preliminary presentations are still open for discussion and all possible revisions until the prototype plan would meet the requirements of the RHU.

The design development will require more designers; including all engineering designs: structural, electrical, sanitary, mechanical and electronics.

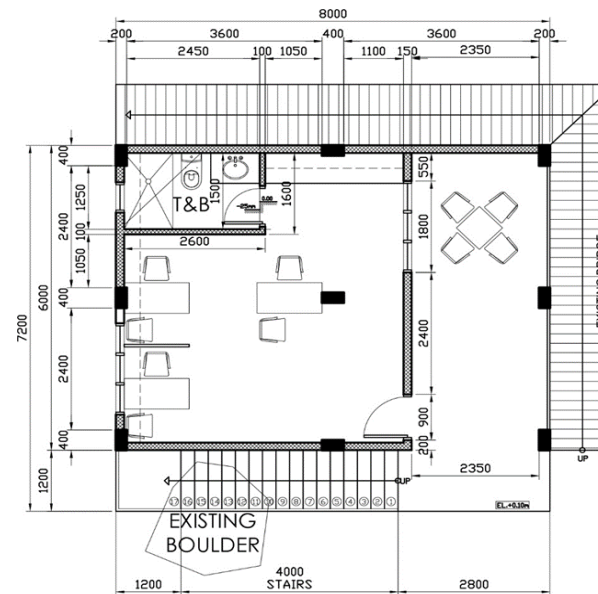


Architectural Design for a Proposed Multi-Purpose Hall

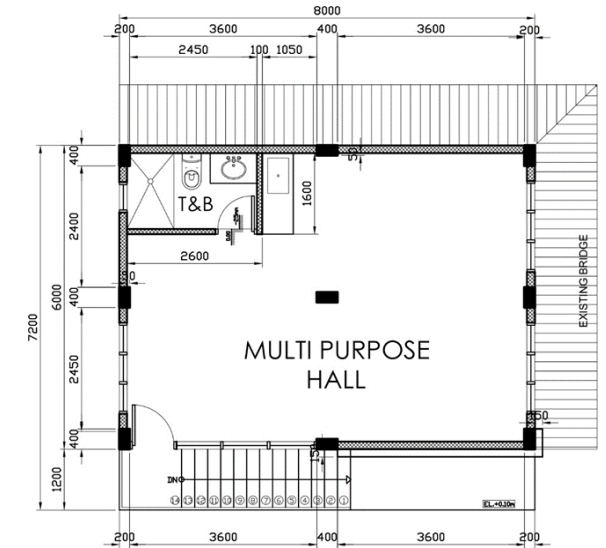
The School of Architecture, Industrial Design, and the Built Environment prepared the architectural design for a Proposed Multi-Purpose Hall. The drawings prepared consists of Ground Floor Plan, Second Floor Plan, Front Elevation, Rear Elevation Right Side Elevation, Left Side Elevation and two Perspectives.

The design proposal was challenging since the location is at the end of a cliff. The location of the Barangay Multi-Purpose Hall requested that an access be provided outside the building so the proposed solution is a walkway that will be built with cantilever support.

The design also intended that tourists would have the experience of seeing the view from the cantilever bridgeway .



1
A-01
GROUND FLOOR PLAN
SCALE 1:100 MTS
Projects: Multipurpose Hall

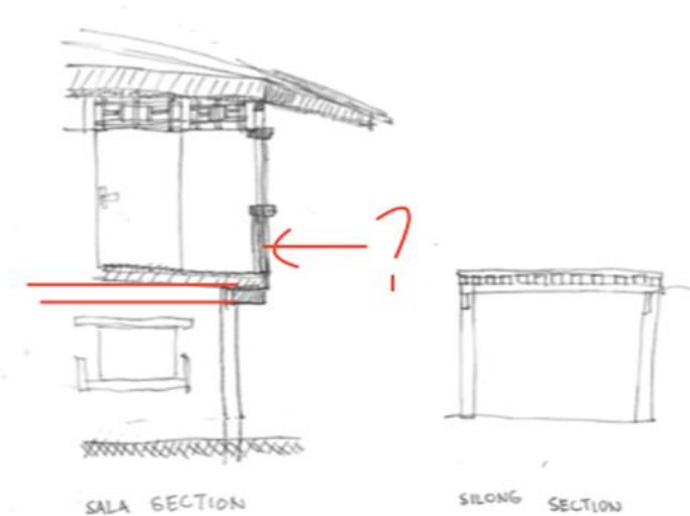


2
A-01
SECOND FLOOR PLAN
SCALE 1:100 MTS
Projects: Multipurpose Hall

Documentation of Old Houses: Course with Service-Learning for ARIDBE

As part of service-learning course of the School of ARIDBE, students in AR126-1 Heritage Documentation under the supervision of Arch. Ealdama learned a systematic technique to document a house' physical structure. The students were exposed to actual wood construction and exercised. The actual house is located in Tayabas, Quezon.

The Operation Sagip Tulay (OST), a local community organization, helped in the assistance and coordination with the owner of the house.



School of Chemical, Biological, Materials Engineering and Sciences



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

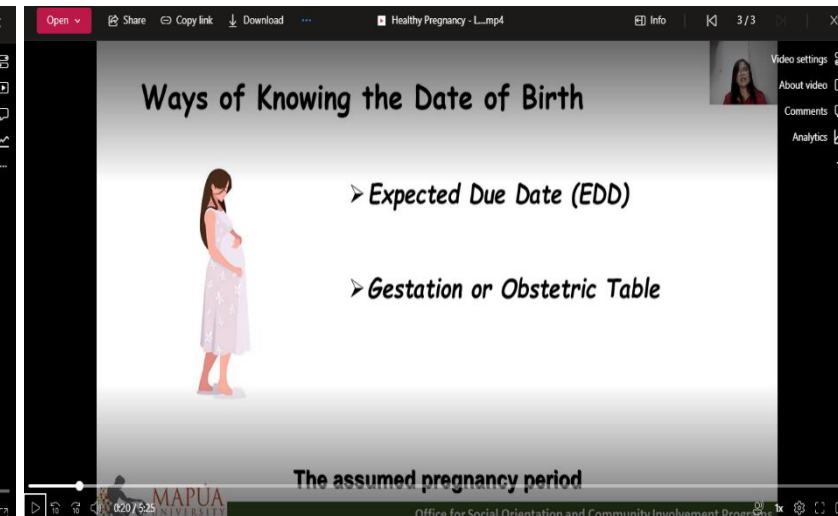
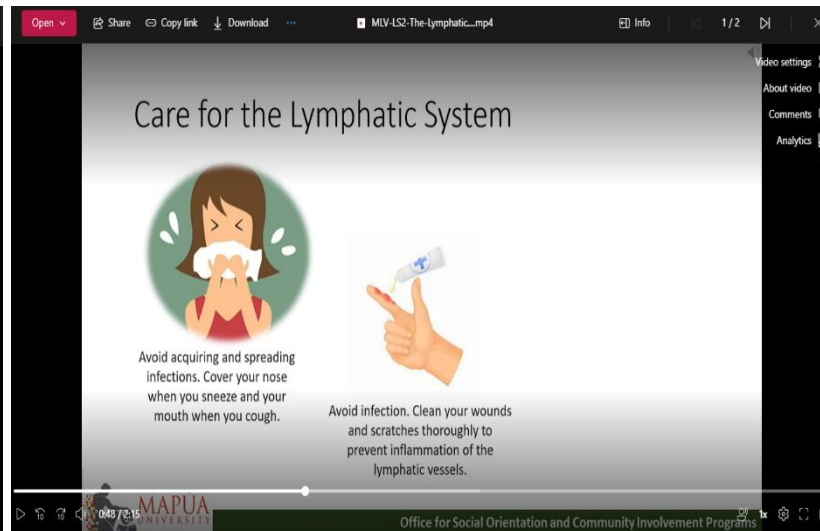
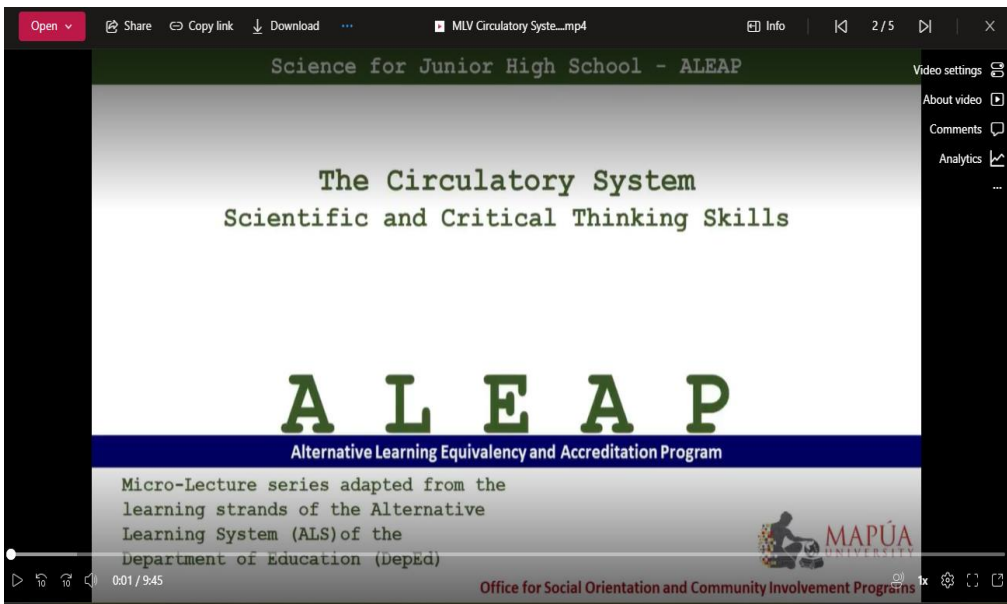
Office for Social Orientation and Community Involvement Programs



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

To support the online delivery of the Alternative Learning Equivalency and Accreditation Program (ALEAP) of Mapua University, faculty members from the School of Chemical, Biological, and Materials Engineering and Sciences created micro-lecture videos on Learning Strand 2: Scientific and Critical Thinking Skills. The program offers a flexible curriculum and learning modules that can be adapted to suit the needs and schedules of learners, enabling them to learn at their own pace. ALS also focuses on practical skills development, preparing learners for livelihood opportunities and empowering them to contribute meaningfully to society.

The micro-lecture videos were stored in the Dunong Lingkod website of Mapua University and can be accessed freely by the learners. Assessment is also available to gauge the learner's knowledge on the lesson. <https://dunonglingkod.mapua.edu.ph/>



School of Civil, Environmental and Geological Engineering



MAPÚA
UNIVERSITY



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



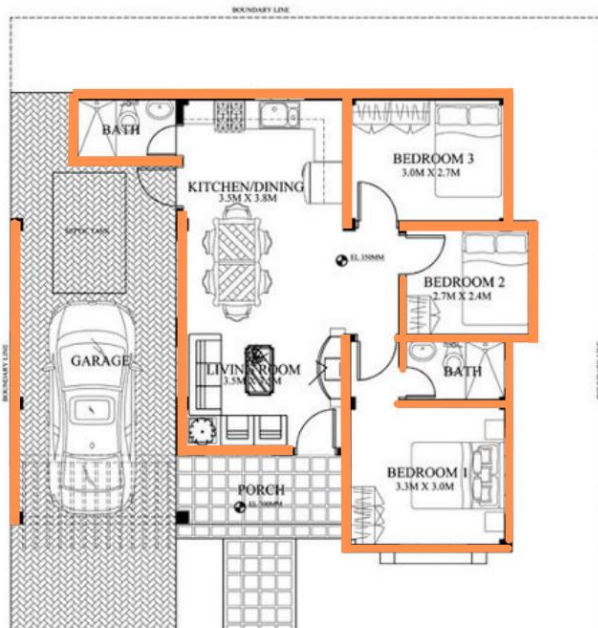
Office for Social Orientation and Community Involvement Programs



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

The School of Civil, Environmental, and Geological Engineering was involved in the Senior High School Community-Based Immersion program which involves students to work on a material cost estimate of their chosen residential floor plan that shall be relevant for the community to use. More than 35 SHS students participated and submitted their works.

The students' works were rated by their faculty mentors using the student performance evaluation instrument. Included in the work submission of the students are the following: (1) floor plan showing all significant dimensions, (2) a power point presentation showing the completed work, (3) daily progress reports on MS word file, (4) detailed calculations of area, volume and cost of materials in MS excel file, (5) list of materials' unit cost, suppliers' name, address and contact details, and (6) students' post evaluation reports.



FileHomeInsertPage LayoutFormulasDataReviewViewHelpTell me what you want to do

CutCopyPasteFormat PainterClipboardFontAlignment

Century Gothic11A A

School of Electrical, Electronics and Computer Engineering



MAPUA
UNIVERSITY



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

Solar Panel Installation Demonstration

In contribution to the achievement of SDG7 Affordable and Clean Energy of the United Nations Sustainable Development Goals (UNSDG), the faculty of the School of Electrical, Electronics, and Computer Engineering initiated a demonstration on how to properly install a solar panel. It was demonstrated in actual set up and in interactive mode. To help the student members to understand how the installation was done, selected EECE faculty members performed the demonstration and kept the student's attention by asking questions and interacting with them. The lecturers showed the step-by-step connections of the solar panel installation. And the outcome was a wonderful experience for the students that they were able to try to install a solar panel.



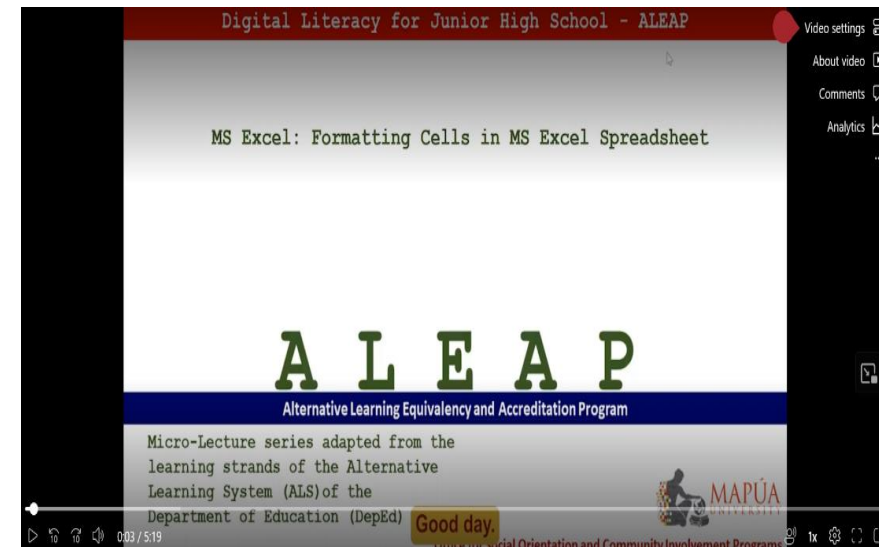
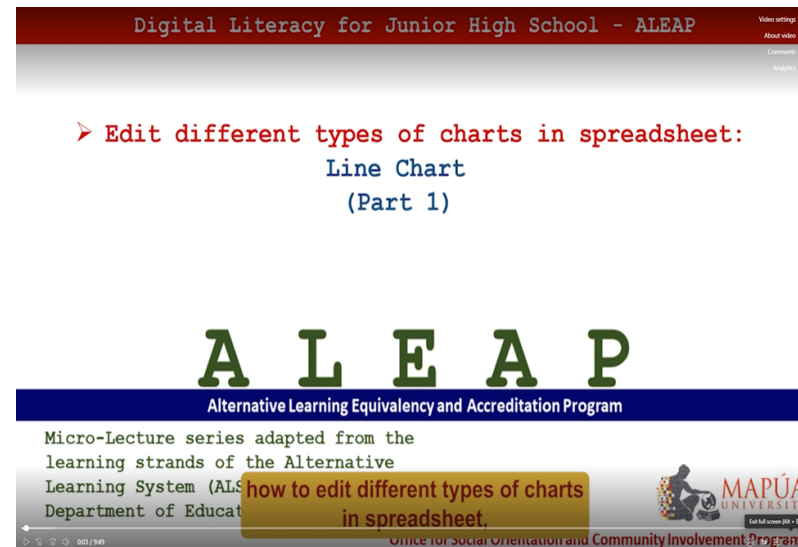
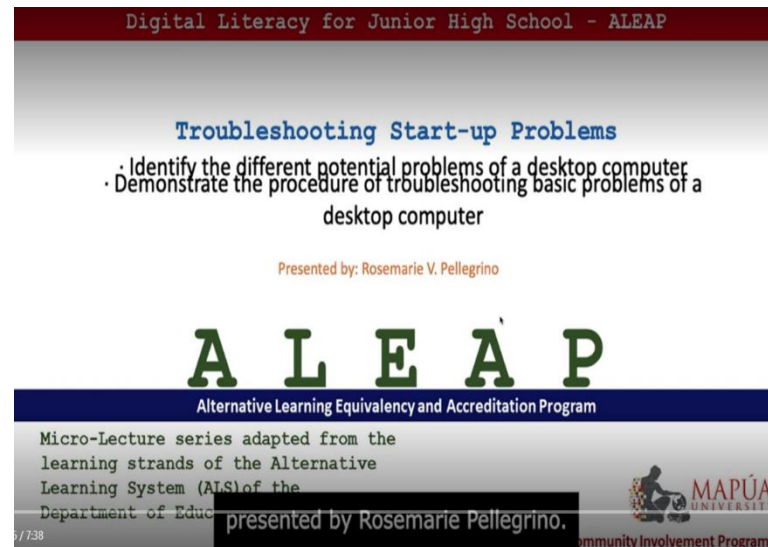
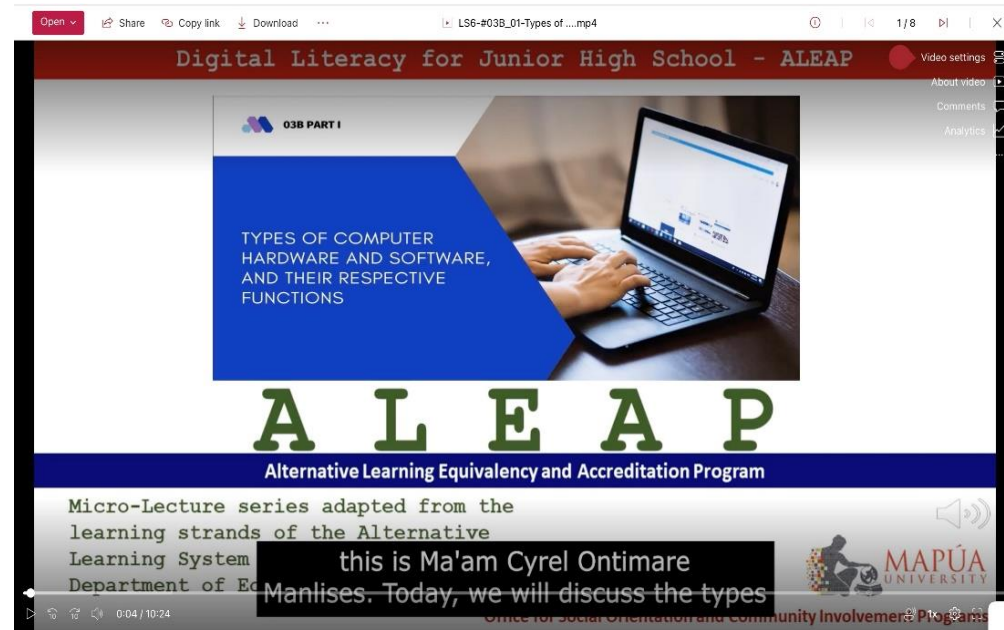
Office for Social Orientation and Community Involvement Programs



Creation of Micro-Lecture Videos (MLV) and Assessments for Alternative Learning Equivalency and Accreditation Program (ALEAP) Learning Strand 6: Digital Literacy

The School of Electrical, Electronics and Computer Engineering created micro-lecture videos for the Alternative Learning Equivalency and Accreditation Program of Mapúa University. The program aims to assist the learners in their modules for better understanding of the topics. The micro video lectures and worksheets or assessment tasks were adapted from the learning strands of the Alternative Learning System or ALS, through the Department of Education, DepEd.

The micro-lecture videos were stored in the Dunong Lingkod website of Mapua University and can be accessed freely by the learners. Assessment is also available to gauge the learner's knowledge on the lesson. <https://dunonglingkod.mapua.edu.ph/>



School of Information Technology



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS



Sign Up

First Name
Last Name
Email
Password
Re-Enter Password

Already a User? Login Here

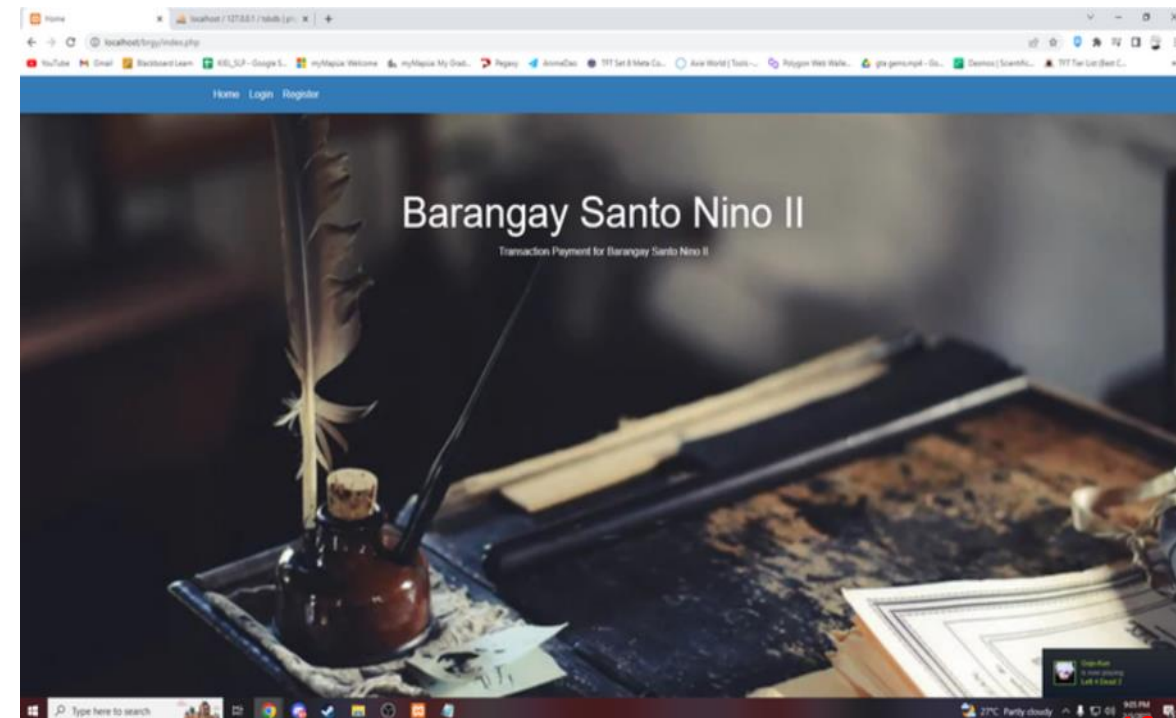
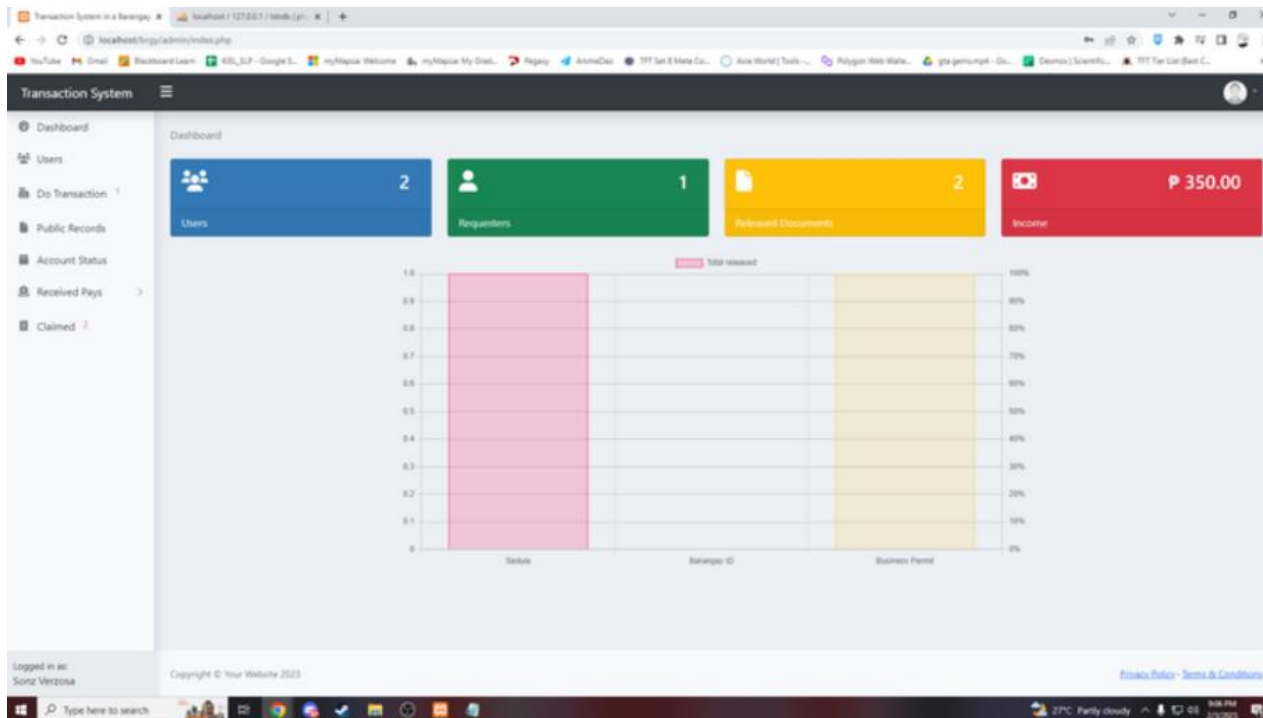
Sign Up

Office for Social Orientation and Community Involvement Programs



Courses Integrated With Service Learning for 2Q2022-2023 (IT135-8L: Web Systems And Technologies Laboratory 2)

As part of the integration of outreach activities in the identified courses of the School of Information Technology, the students of IT135-8L developed dynamic websites based on identified requirements/needs of their chosen community. The faculty members served as mentors in guiding the students with the requirements and in the delivery of their output. They also provided their expertise in evaluating the students' work.



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 (SDG9-2: Software Testing: User Acceptance Testing Activity)

The School of Information Technology in coordination with the Senior High School Department had exposed Mapua Senior High School students to experience doing community work related to their preferred undergraduate degree program while practicing United Nations Sustainable Development Goals. The chosen topic was The User Acceptance Testing Activity observed attainment of SDG9-2: Promote Inclusive and Sustainable Industrialization.

The activities helped expose the students to the concepts related to the technology programs of the university. The activity also helped the students came up with excellent design ideas. Moreso, the students' concepts were clear and is relevant to the SDG topic.

Requirements Traceability Matrix	
Requirements	Test Cases
R1	TC1, TC2, TC3
R2	TC4, TC5, TC6, TC7
R3	TC8
R4	TC9, TC10
R5	TC9, TC12
R6	TC9, TC11
R7	TC4, TC5, TC6, TC7, TC9, TC11
R8	TC4, TC6, TC9

Test Suites						
TS1						
Observe account creation						
Test scenarios that are related to creating an account						
#	Summary	Dependency	Pre-condition	Post-Condition	Execute Steps	Output
TC1	Verify that the user can attempt to create an account		The user is in the Register/Login Page	The user can register	Click the register button	The page to register is displayed
TC2	Verify the user can put the required information to make an account		The prompts for information must be all empty	User is able to register for the password manager	Fill in all the information prompts	Display a prompt saying "Thank you for registering"
TC3	Verify if the user cannot register if he has missing information		The user's information should be missing	User will not be able to register	Fill most or none of the information prompts	Display text that the required information is missing
TS2						
Observe login function						
Test scenarios that are related to logging in						
#	Summary	Dependency	Pre-condition	Post-Condition	Execute Steps	Output
TC4	Verify that the user can login and has already registered		The user has registered for an account and has the account and password information ready	The user is logged in	Type in the correct account and password information	The 2FA page is displayed
TC5	Verify that an unregistered user cannot login		The unregistered user has not made an account or has the wrong information	User is unable to use the site/not logged in	Fill the account and password with information not registered in the database	Display text that the information added was incorrect

#	TS1				
TITLE	Verify "Mapúa blackboard login" functionality				
DESCRIPTION	To test the different scenarios that user might encounter while trying to login				

#	SUMMARY	PRE-CONDITION	POST-CONDITION	EXECUTION STEPS	EXPECTED OUTPUTS
TC1	Verify that user already registered with Mapúa is able to login with username and password	Mymail account ex. jscruz@mymail.mapua.edu.ph is a registered user of Mapúa; the user's password is ex. jul112022130418	User successfully logged in to Mapúa Blackboard	1.Type in username as jscruz@mymail.mapua.edu.ph 2.Type in password jul112022130418 3.Click on the 'Sign In' button	"Home" page for the user is displayed
TC2	Verify that an unregistered user of Mapúa is unable to login	Mymail account ex. jasonsantos.cruz@yahoo.com is not a registered user of Mapúa	User unsuccessfully logged in to Mapúa Blackboard	1.Type in username as jasonsantos.cruz@yahoo.com 2.Type in password IDK12345 3.Click on the 'Sign In' button	A dialog on the login page of Blackboard is shown with a "The username or password you typed is incorrect. Please try again. If you still can't log in, contact your system administrator."
TC3	Verify that the user unable to login can retrieve a lost or forgotten account through forgot password	The user's Mymail account and password are incorrect, potentially forgotten or lost.	User retrieved account through forgot password	1.Click on the 'Forgot Password?' button 2. Two options were provided in retrieving the lost account; Username option and Email address option 3.Fill out the needed information then click "Submit"	A dialog on the login page of Blackboard is shown with a "Check your email! We just sent you instructions to change your password."



Log In

Welcome back! Log back in to continue.

[Stay signed in](#) [Forgot Password?](#)

[Sign In](#)



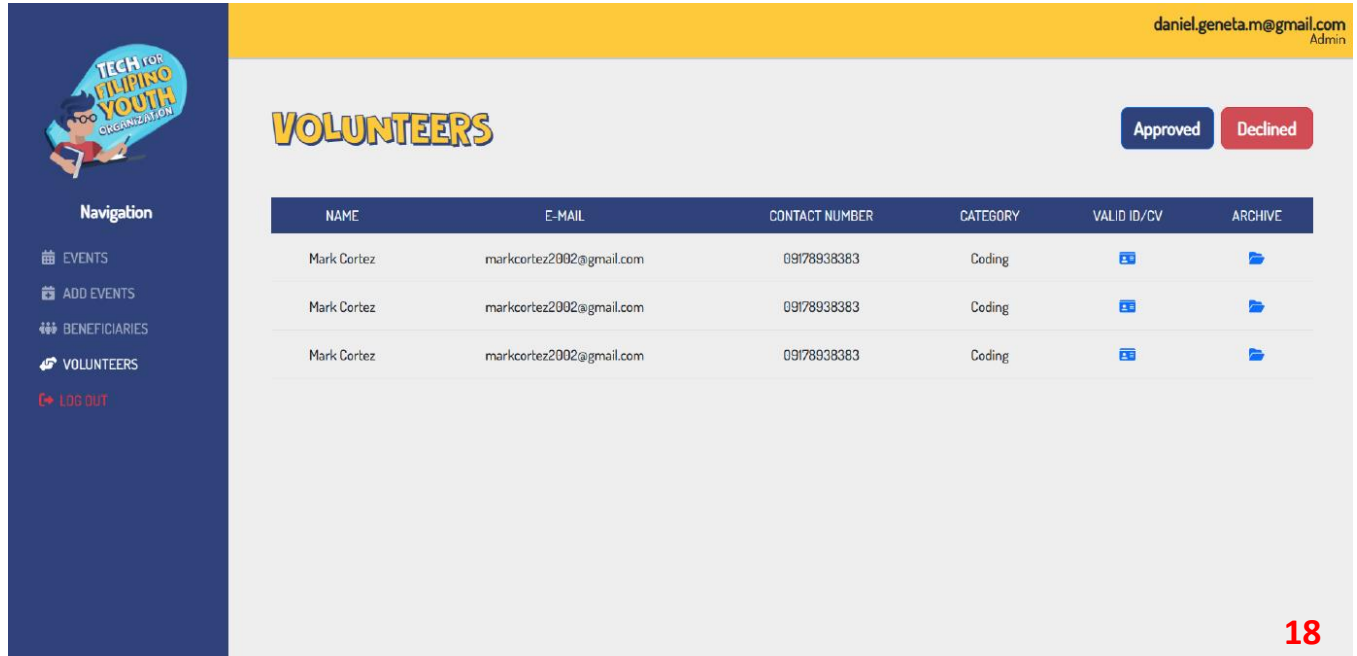
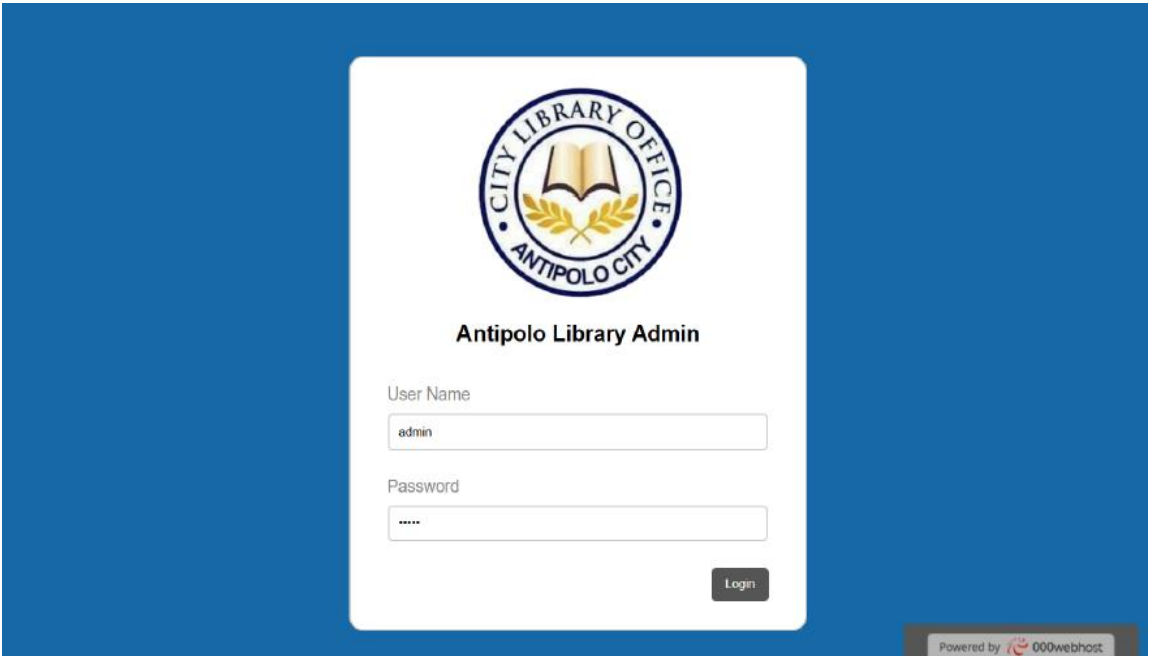
Office for Social Orientation and Community Involvement Programs



Courses Integrated With Service Learning for 3Q2022-2023 (IT135-8L: Web Systems And Technologies Laboratory 2)

As part of the integration of outreach activities in the identified courses of the School of Information Technology, the students of IT135-8L developed dynamic websites based on identified requirements/needs of their chosen community. The faculty members served as mentors in guiding the students with the requirements and in the delivery of their output. They also provided their expertise in evaluating the students’ work.

The activity was implemented from April 3, 2023 to May 7, 2023



School of Mechanical and Manufacturing Engineering



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

W E B I N A R

Sponsored by: School of Mechanical and Manufacturing Engineering

FREE REGISTRATION



<https://forms.office.com/r/2adgNDjq8T>
SCAN TO REGISTER or CLICK the LINK

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

18 MARCH 2023
10:00AM – 12:00NN

Office for Social Orientation and Community Involvement Programs



Webinar on Shielded Metal Arc Welding with Business Start-Up Orientation

On March 18, 2023, the School of Mechanical and Manufacturing Engineering held a free webinar on shielded metal arc welding with business start-up orientation. The activity was conducted via Zoom meeting and was attended by around 100 participants.

The 2-hour webinar aimed to share knowledge and expertise on the basics of welding like welding types, symbols for reading, drafting and welding consumables, welding quality control, welding safety, and careers in welding.

WELDING TYPES



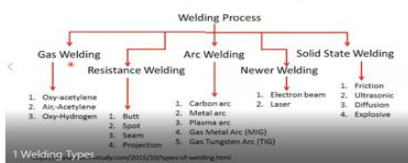
WELDING SIGNS AND SYMBOLS FOR READING AND DRAFTING



WELDING SAFETY AND PERSONAL PROTECTIVE EQUIPMENT

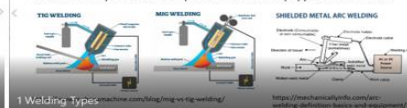


TYPES OF WELDING



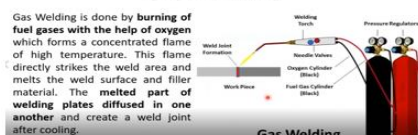
ARCH WELDING

This welding process generate an arc column between an anode, which is the positive pole of power supply, and the cathode, the negative pole. **Weld metal melts from the edges to be joined** and allowed to solidify usually below the recrystallization temperature without any applied deformation.



GAS WELDING

Gas Welding is done by burning of fuel gases with the help of oxygen which forms a concentrated flame of high temperature. This flame directly strikes the weld area and melts the weld surface and filler material. The melted part of welding plates diffused in one another and create a weld joint after cooling.



RESISTANCE WELDING

Resistance Welding is the joining of metals by applying pressure and passing current for a length of time through the metal area which is to be joined.





OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

W E B I N A R

Sponsored by: School of Mechanical and Manufacturing Engineering

Automotive Technology with Business Start-up and Licensing Orientation

14 OCTOBER 2023
10:00AM – 12:00NN

FREE REGISTRATION



<https://forms.office.com/r/r3rKZY9zHw>

SCAN TO REGISTER or CLICK the LINK

Office for Social Orientation and Community Involvement Programs



Webinar on Automotive with Business Start-Up and Licensing Orientation

On October 14, 2023, the School of Mechanical and Manufacturing Engineering held a free webinar on automotive technology via Zoom Meeting. The webinar was attended by almost 160 participants.

The 2-hour webinar which was led by the faculty of the School of MME, aimed to share knowledge and expertise on Vehicle Fundamentals, Fuel and Emission Systems and Automotive Maintenance and Care. They also discussed advance automotive concepts and automotive business and licensing requirements.

SPEAKERS



IGMEDIO F. ISILA 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

AUTOMOTIVE TECHNOLOGY: FUEL AND EMISSION SYSTEMS

FUEL DISTRIBUTION SYSTEM COMPONENTS

Fuel distribution system is responsible for delivering fuel to the engine as needed.

FOR OLDER ENGINES:

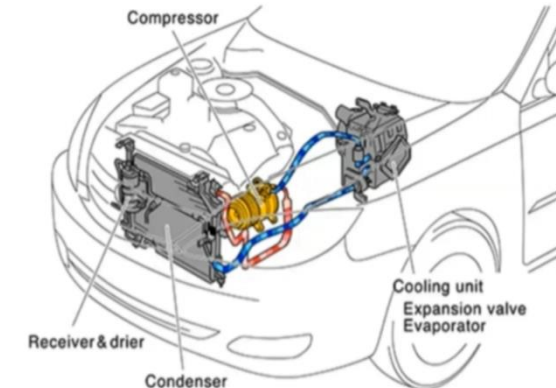
- Fuel tank, pump and filter
- Carburetor

FOR NEWER ENGINES:

- Fuel Injector
- Fuel tank, pump and filter
- Fuel/ Common Rail
- Fuel Pressure Regulator
- Fuel High Pressure Pump
- Injection pump("Diesel-mechanical")
- ECU/ECM (Electronic Control Unit/Module)
- Sensors/Sensing elements



Basic AC Components: Car Application



School of Media Studies



MAPÚA
UNIVERSITY



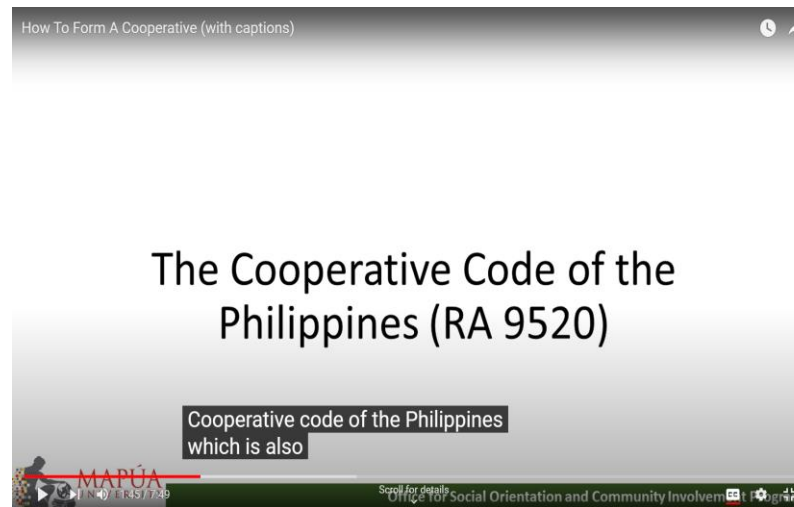
OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Creation of Micro-Lecture Videos (MLV) and Assessments for Alternative Learning Equivalency and Accreditation Program (ALEAP)

The School of Media Studies created Micro-Lecture Videos (MLVs) and Assessments for Learning Strand #4: Life and Career Skills. Topics are 1) What is a Cooperative; and 2) How to Form a Cooperative as indicated in the module by the Department of Education (DepEd). The MLVs also have corresponding assessments to test the learner's knowledge after each MLV.

The MLV creation ran from 4Q2021-2022 to 3Q2022-2023.

The MLVs can be viewed in the online portal of Mapua University called "Dunong Lingkod" where learners can easily access the videos for free. To access visit: <https://dunonglingkod.mapua.edu.ph/>



School of Health Sciences



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS



WEBINAR

Promoting Creative Thinking via **Six Thinking Hats**

20 May 2023 | 9:00AM - 12:00NN

FREE REGISTRATION



bit.ly/sixthinkinghats0520

Visit the link or
Scan to register



Office for Social Orientation and Community Involvement Programs



Webinar on Promoting Creativity via Six Thinking Hats

The School of Health Sciences conducted a free webinar as part of its outreach activity. The webinar was held on May 20, 2023 via Zoom meeting.

The two-day interactive workshop presented creativity as a skill that can be developed.

The first of the two-day lecture workshop aimed to provide students with simple thinking tools for developing creative thinking. The workshop introduced the Six Thinking Hats as a method of Creative Thinking that allows for exploring thoughts and ideas within a specific structure.

The workshop also aimed to equip the students and professionals with the basic knowledge and practical techniques on how they can approach the usual bumps in their college lives.

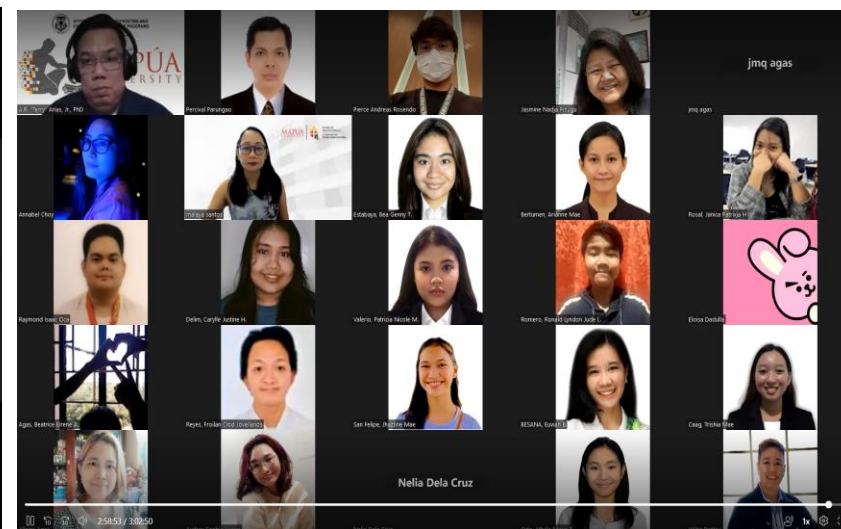
Harnessing Creativity via OBE Framework

Jasmine Nadja J. Pinugu, Ph.D.

Sponsored by:
School of Health Sciences (SoHS)



What are the different thinking hats



WEBINAR

Issues and Trends in Mental Health and Wellness across Multiple Contexts

FREE REGISTRATION

27 May 2023 | 9:00AM - 12:00NN

SCAN TO REGISTER



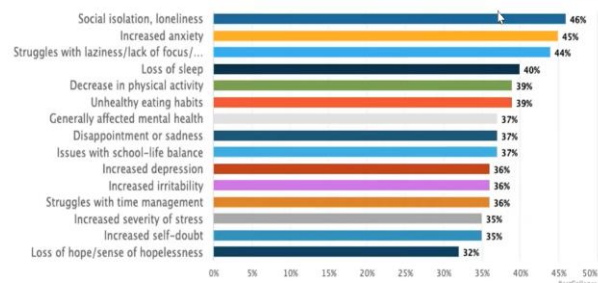
Office for Social Orientation and Community Involvement Programs

Webinar on the Issues and Trends in Mental Health and Wellness Across Multiple Contexts

The School of Health Sciences conducted a free webinar as part of its second series of outreach activity. The webinar was held on May 27, 2023 via Zoom meeting.

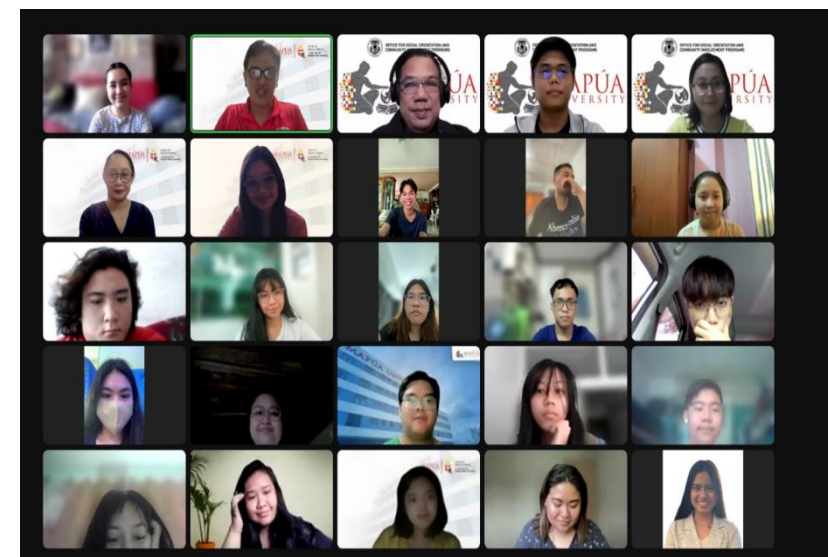
The webinar lectures intended to equip students and professionals with the basic knowledge and practical skills and techniques on how they can approach the usual ups and downs of their personal and professional lives.

Share of College Students Who Experienced the Following Symptoms During Circumstances Related to COVID-19



WHAT IS CONFLICT

- Real or perceived threat or opposition to one's needs, interests, principles, concerns, or security.
- A state of disharmony between incompatible or antithetical persons, ideas, or interests; a clash.
- A psychic struggle, often unconscious, resulting from the opposition or simultaneous functioning of mutually exclusive impulses, desires, or tendencies.



Department of Liberal Arts



MAPÚA
UNIVERSITY



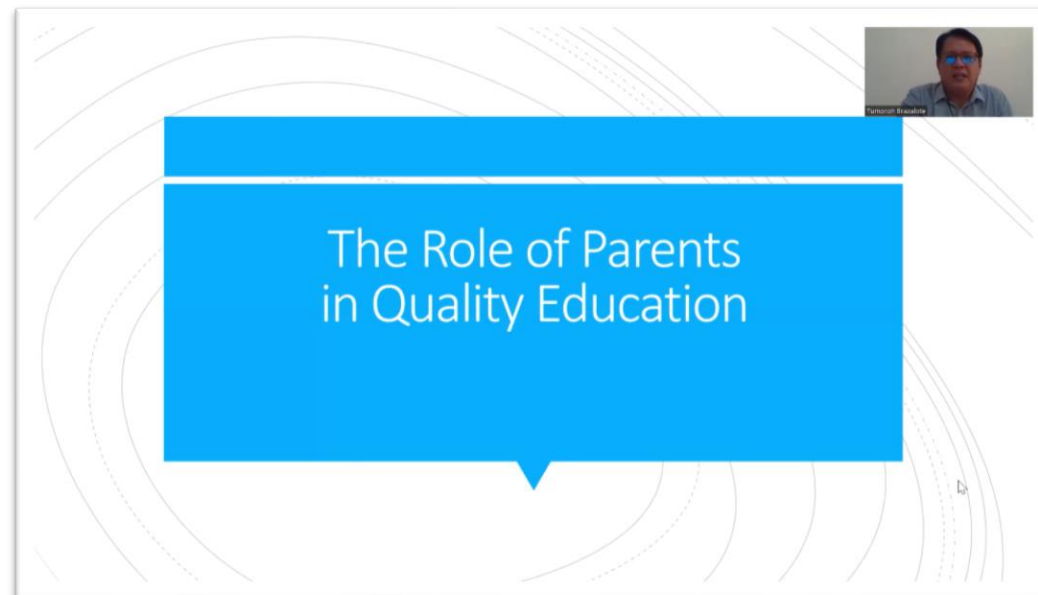
OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

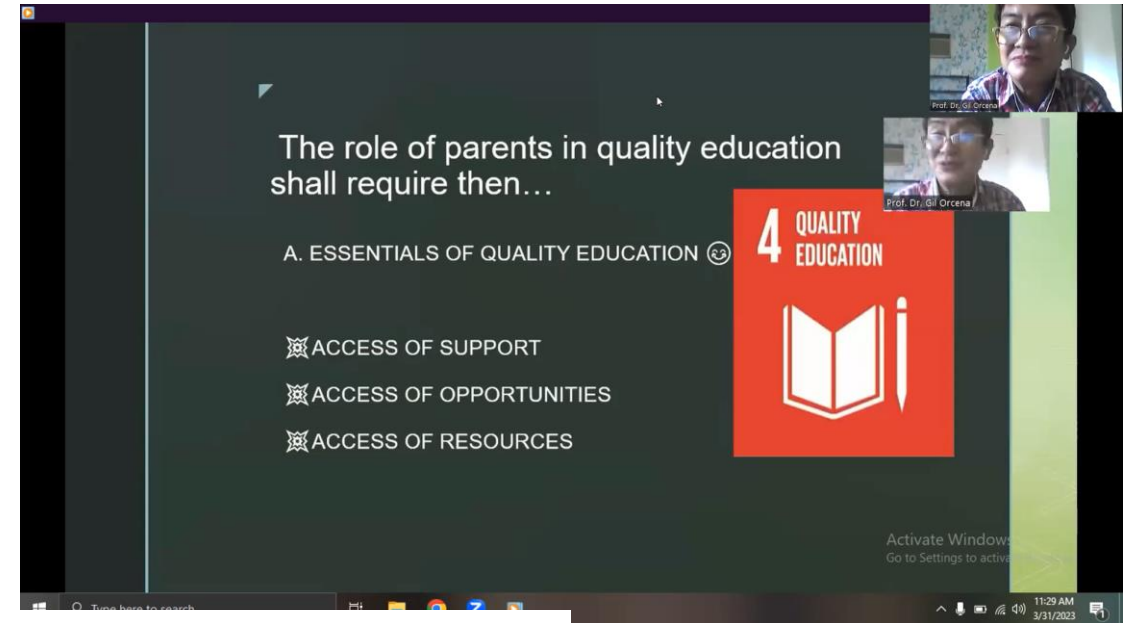
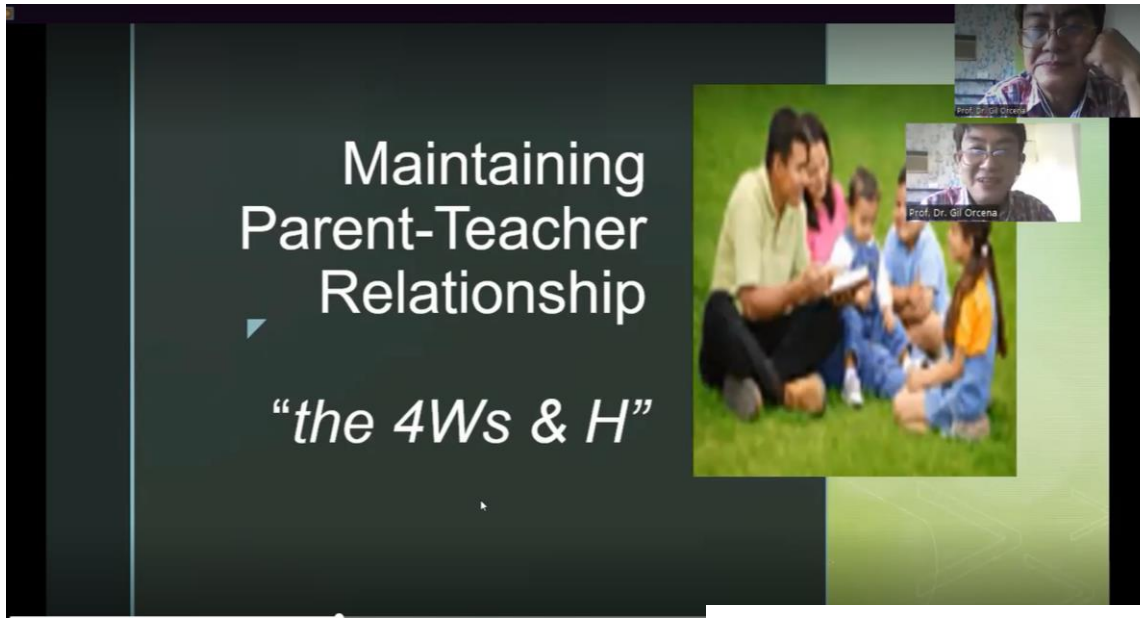
Webinar on the Role of Parents in Quality Education

In its pursuit to contribute to United Nations Sustainable Goals, on March 31, 2023, the faculty of the Department of Liberal Arts offered a free webinar on the role of parents in quality of education. The activity aimed to help the parents recognize and apply different ways on how to foster quality education as partners in learning.

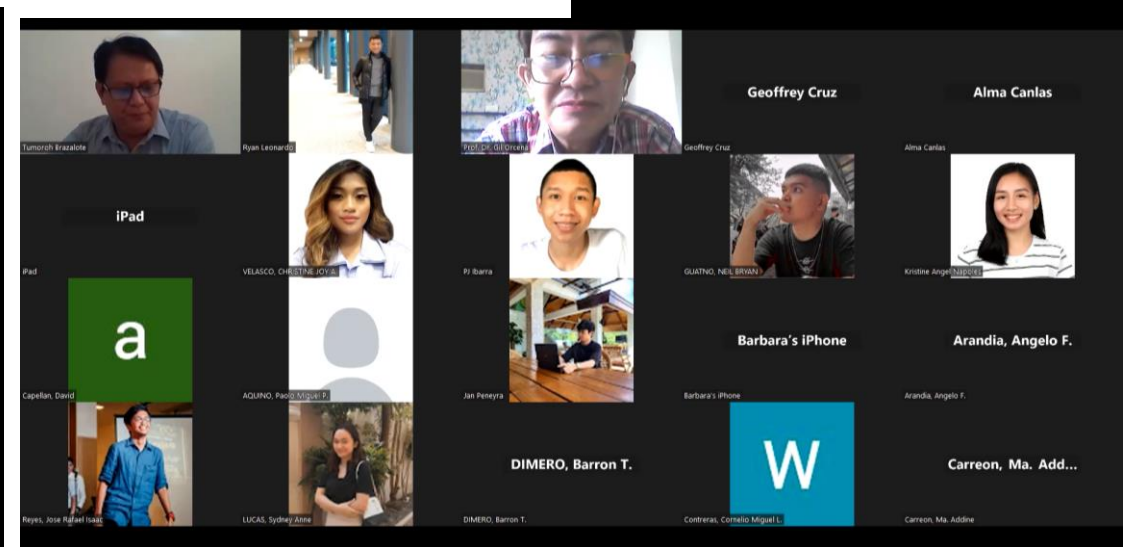
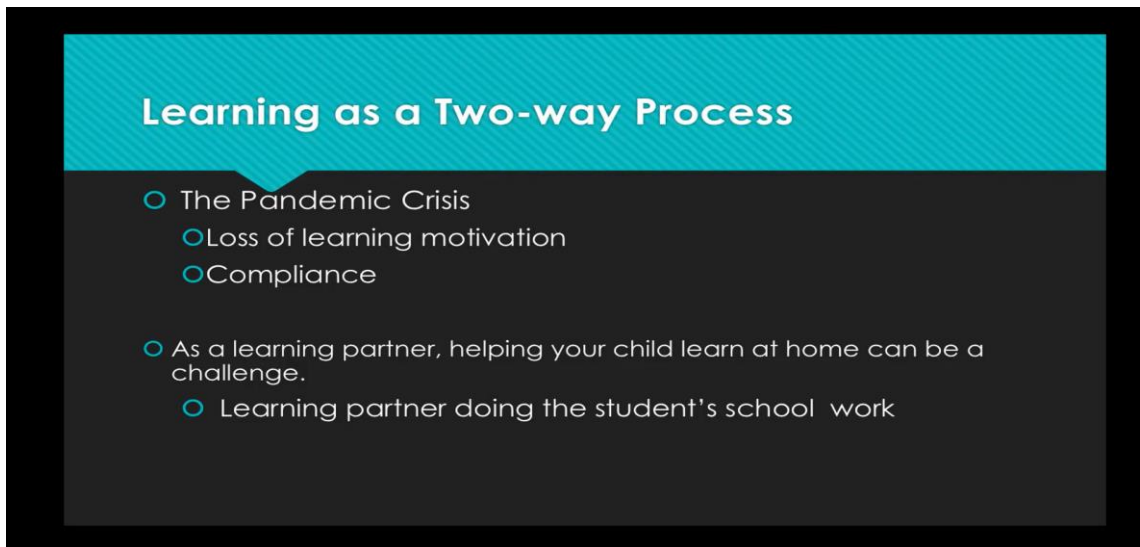
The speakers discussed the importance of parents in the learning process of their children and how their assistance give support to their children's development. Different approaches to compliment a child's effort in school were also discussed in the webinar.

The activity was rated with positive points by the attendees.





Screenshots taken from the webinar of DLA



Office for Social Orientation and Community Involvement Programs

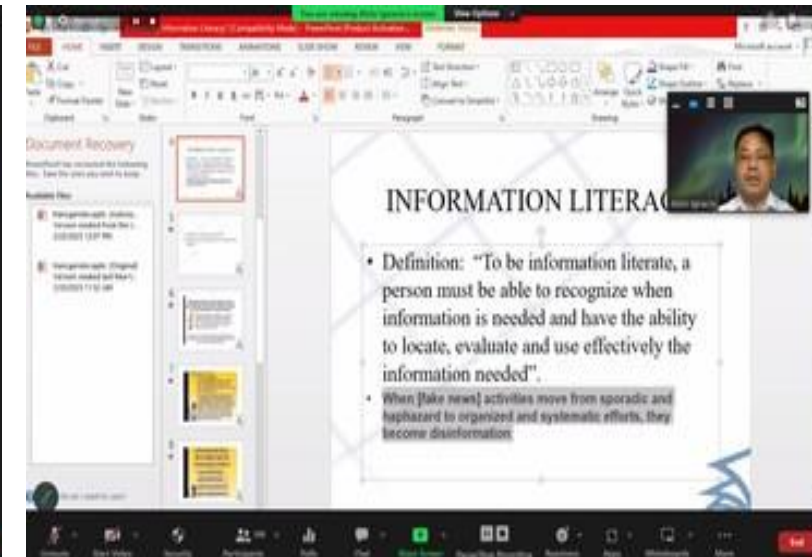
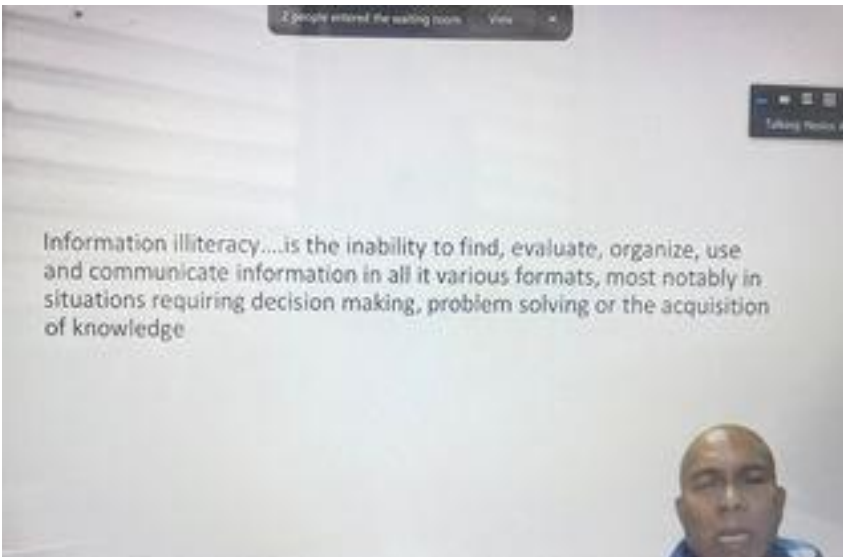


Webinar on How to Combat Misinformation and Disinformation

The Department of Liberal Arts continues its outreach activity by providing webinars on topics relevant to United Nations Sustainable Development Goals particularly on SDG4: Quality Education.

On March 31, 2023, the faculty of the Department held a webinar on how to spot a fake news. The speakers discussed the ways on how to combat different issues on misinformation and disinformation on the youth nowadays. The webinar also tackled the gaps and possible reforms to fight information illiteracy to promote quality education for all.

The activity also aimed to open the minds of today's generation to create an unprejudiced learning environment which would lead to a more socially aware community.



Information Literacy

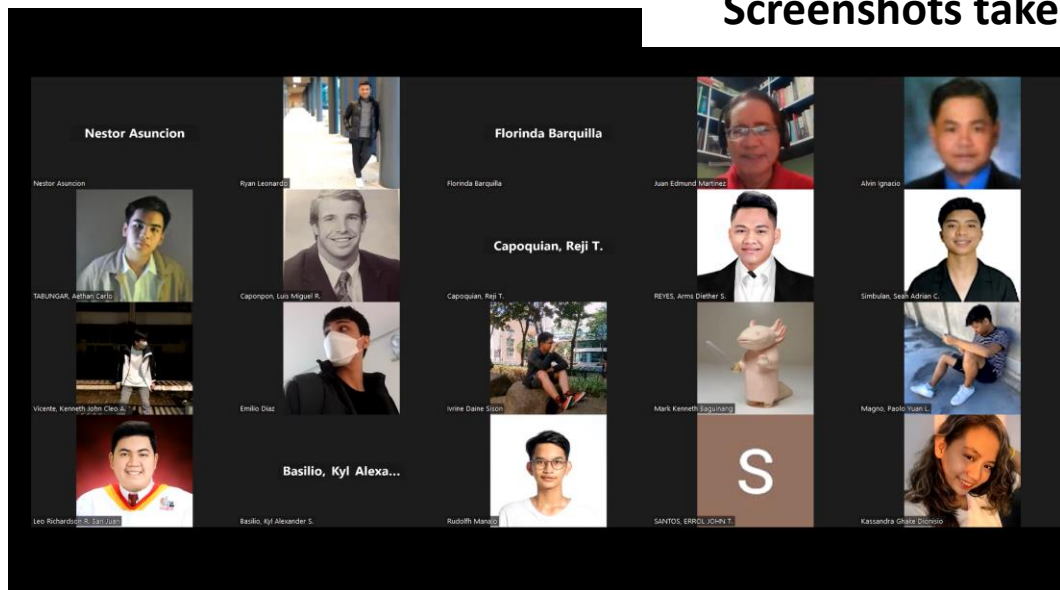
- Information Literacy is a transformational process in which the learner needs to find, understand, evaluate, and use information in various forms to create for personal, social or global purposes.
- Information Literacy shares a fundamental set of core thinking- and problem-solving meta-skills with other disciplines. Authentic cross-disciplinary problems which include observation and inference, analysis of symbols and models, comparison of perspectives, and assessment of the rhetorical context, engage students in developing mastery information literacy over time.



Differences Between Misinformation & Disinformation

- Misinformation – wrong information
- Usually the result of error
- Often inadvertently spread
- Disinformation – wrong information
- Deliberately made with the intent to deceive
- Deliberately spread or disseminated

Screenshots taken from the webinar of DLA



Department of Mathematics



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

LS3-#15-COMPOSITE FIGURES

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 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.

Different topics under the Learning Strand 3 were created into a micro-lecture video. The faculty members utilized their skills and knowledge to create well-explained MLVs.

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/>

LS3-#14-Solving Percentage Problems

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

Learning Strand 3 Mathematical and Problem Solving Skills



BUSINESS MATH 1

ALEAP

Alternative Learning Equivalency and Accreditation Program

Micro-Lecture series adapted from the learning strands of the Alternative

LS3-#2-Area (Planar Figures - Parabolic Section)

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

Senior High School Department



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

ANG SARILI NATING WIKA

ARALIN 1:

Para Saan ang Wikang Pambansa?

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

Office for Social Orientation and Community Involvement Programs



Creation of Micro-Lecture Videos (MLV) And Assessments for Alternative Learning Equivalency And Accreditation Program (ALEAP) Learning Strand 1: Filipino, Learning Strand 1: English, Learning Strand 2: Scientific and Critical Thinking Skills, Learning Strand 3: Mathematical and Problem Solving Skills, and Learning Strand 5: Understanding the Self and Society

To assist in the implementation of the Alternative Learning Equivalency and Accreditation Program (ALEAP) of Mapua University, the senior high school teachers of the Department of Senior High School joined in the creation of micro-lecture videos following the topics provided by the DepEd for the different learning strands of the ALS program.

The teachers created several MLVs covering specific topics on Learning Strand 1, Learning Strand 2 and Learning Strand 3. The MLVs were stored in the Dunong Lingkod portal of Mapua University where learners can freely access the videos.

The micro-lecture videos were created from January 2-May 31, 2023.

PREPARING A SIMPLE PROJECT PROPOSAL

ALEAP

Alternative Learning Equivalency and Accreditation Program

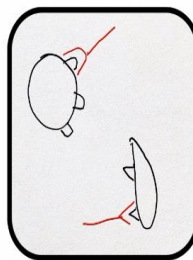
Micro-Lecture series adapted from the learning strands of the Alternative Learning System (ALS) of the Department of Education (DepEd)



Office for Social Orientation and Community Involvement Programs

Good day, everyone! In this video, we will explore the structure, content, and outline of a simple project proposal.

LYMPHATIC SYSTEM maintaining fluid balance in the body and **immunity**



Antigen

- molecules that cause the body to produce antibodies
- bacteria, virus, malignant (cancer-causing) cells

based on a specific type of disease causing agent

For example, you need to monitor the number of cockroaches inside the houses in your barangay. They say the average number of cockroaches in every house should be at most 100.

House 1	120	House 7	130	House 13	60	House 19	160	House 25	130
House 2	90	House 8	150	House 14	100	House 20	150	House 26	140
House 3	100	House 9	60	House 15	120	House 21	130	House 27	150
House 4	90	House 10	150	House 16	130	House 22	120	House 28	120
House 5	80	House 11	120	House 17	140	House 23	130	House 29	130
House 6	70	House 12	130	House 18	150	House 24	120	House 30	160

Range= Highest value - Lowest value
Range= 160-60
Range = 100

3 Analysis.

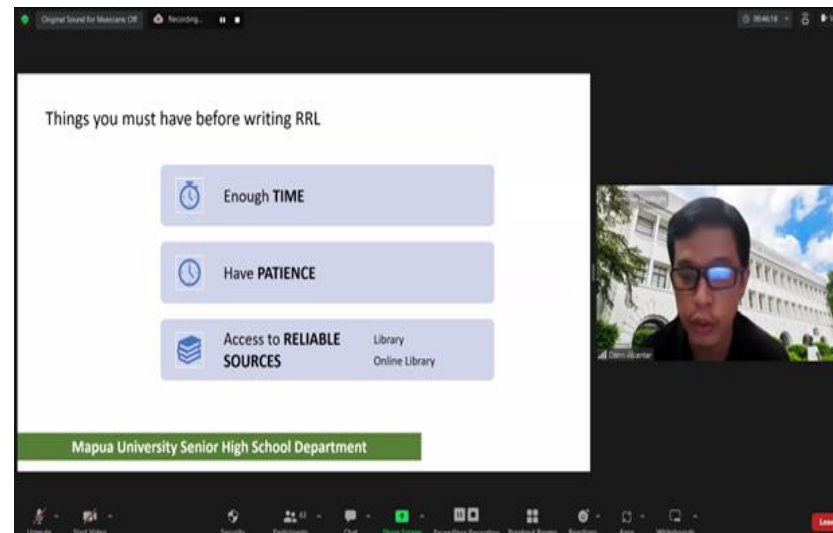
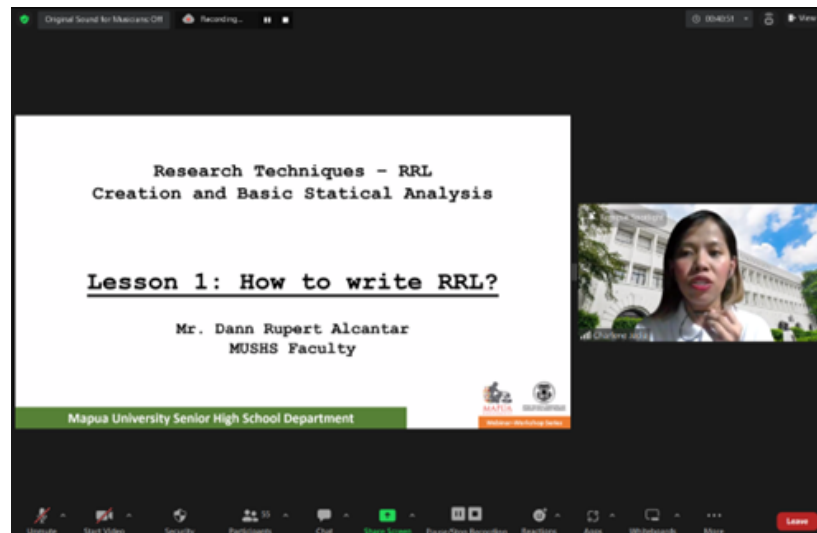
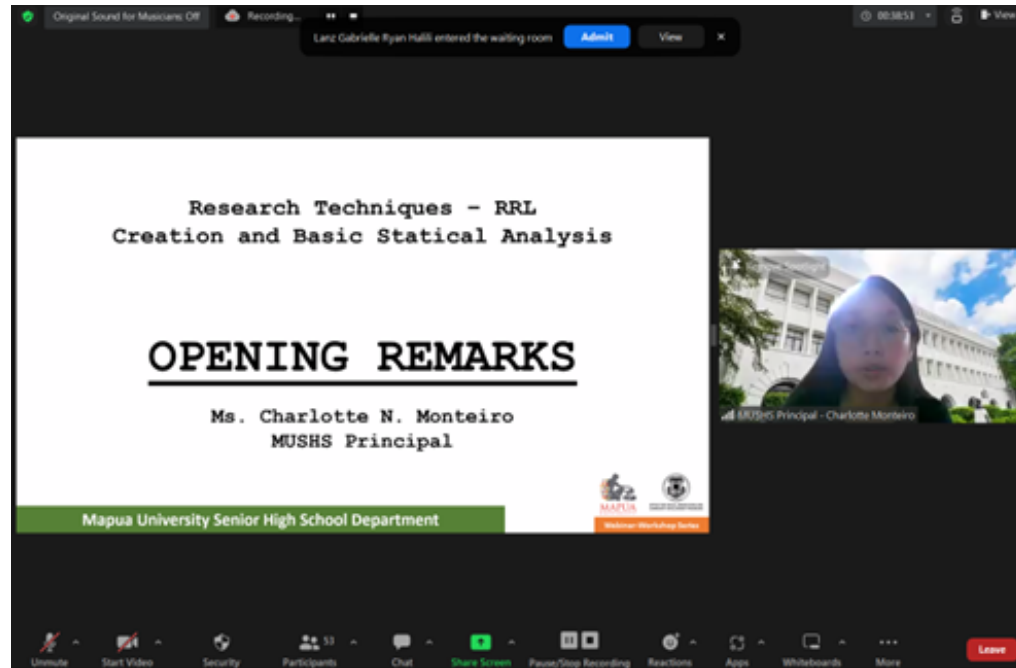
Office for Social Orientation and Community Involvement Programs



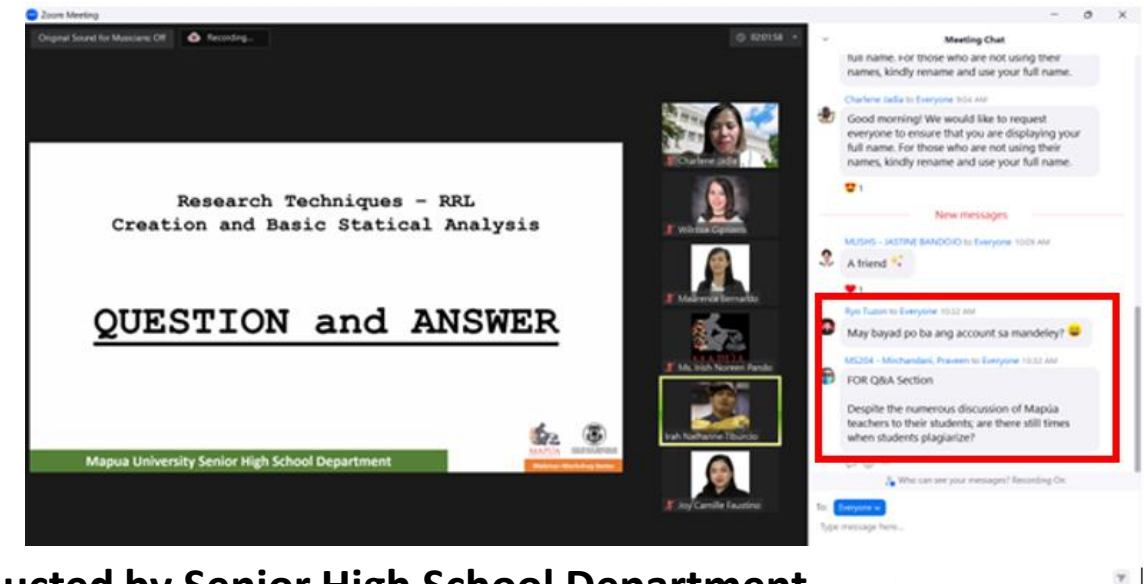
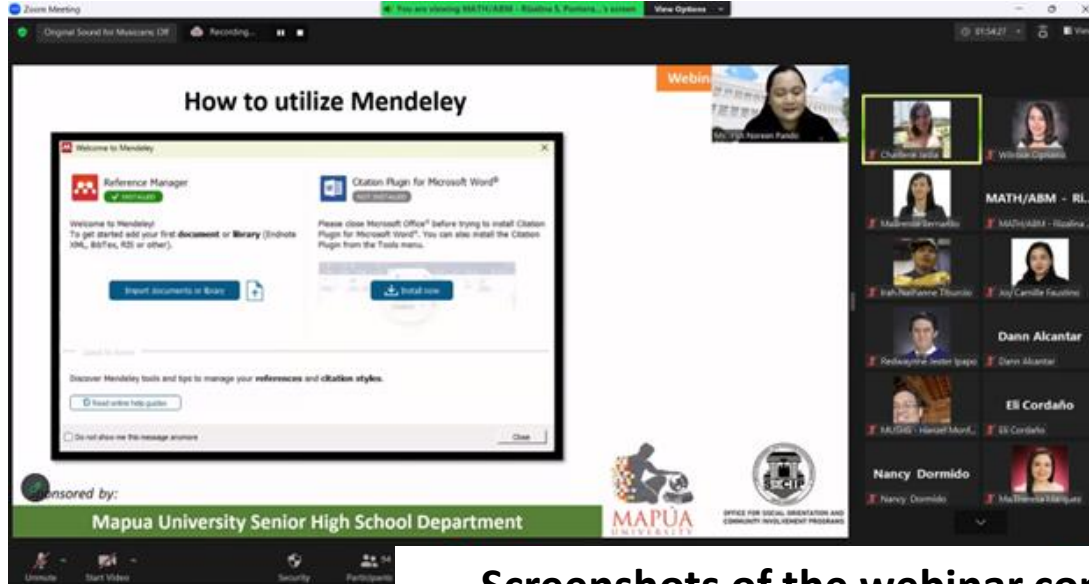
Webinar on Research Techniques – RRL Creation and Basic Statistical Analysis

On May 27, 2023, the Department of Senior High School offered once again a free webinar for students and teachers to give them an in-depth information and practical skills on creating evidence-based research. The webinar focused on preparing a literature review (RRL) and fundamental statistical analysis to provide researchers, students, and professionals with the tools required to successfully navigate the early stages of the research process including the basic statistical analyses and completing literature reviews.

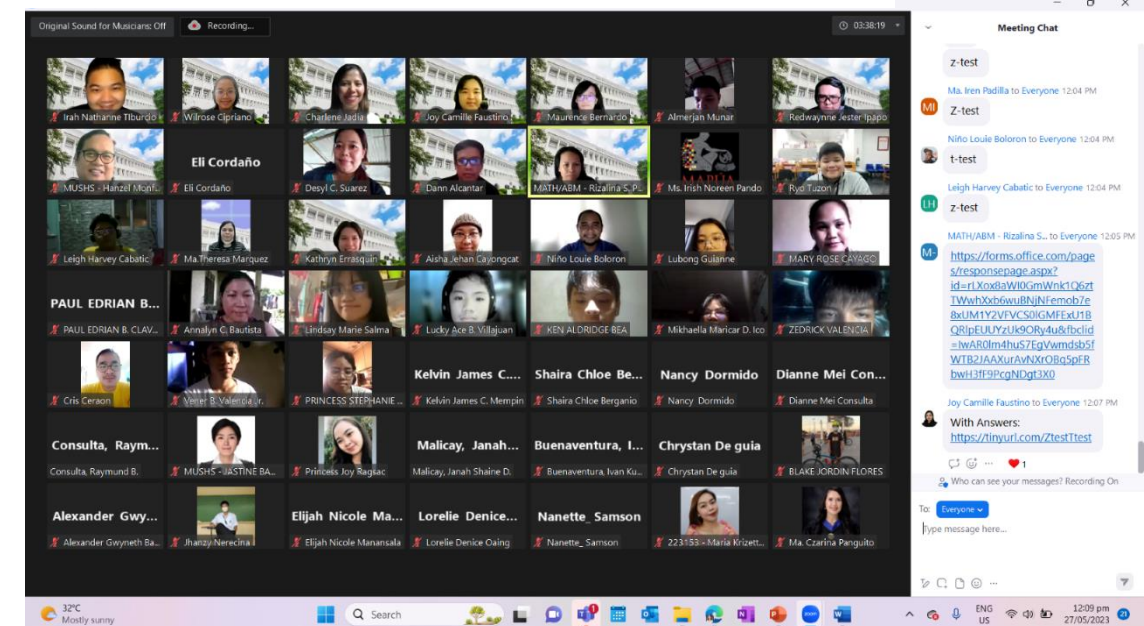
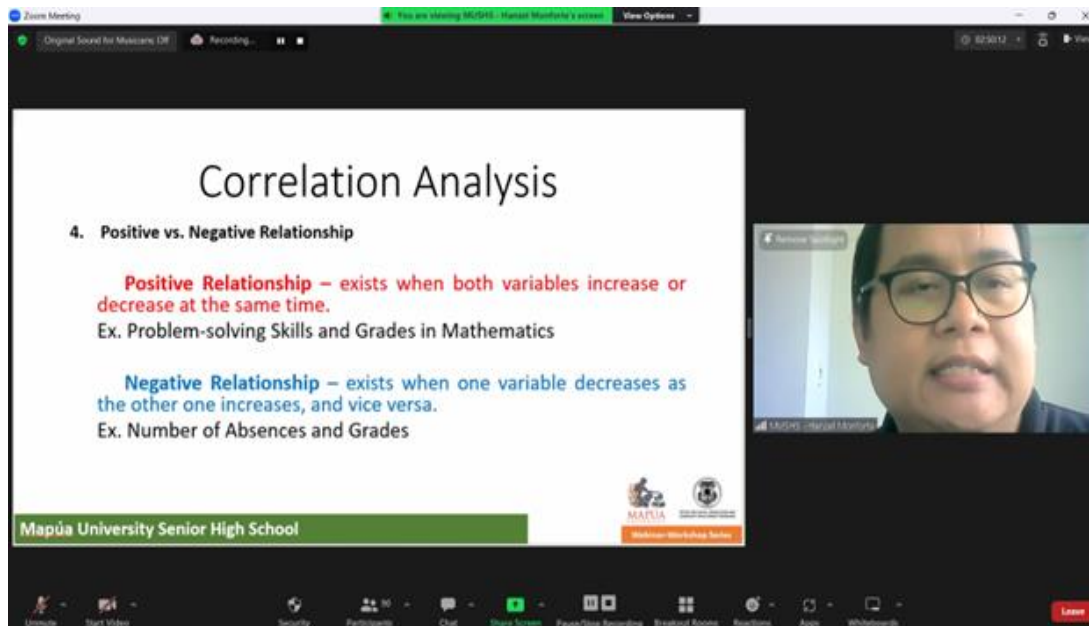
The attendees participated in lectures throughout the seminar to allow them to grasp the ideas taught on research methods.



Office for Social Orientation and Community Involvement Programs



Screenshots of the webinar conducted by Senior High School Department



Institutional Activities



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Relief Operation for the Affected Families of Typhoon Karding in San Simon, Pampanga

To assist the families and individuals affected by Typhoon Karding that hit Luzon on September 21, 2022, the Mapua University through its Office for Social Orientation and Community Involvement Programs (SOCIP) provided 150 packed relief goods to the affected families in Brgy. San Miguel and Brgy. San Juan in San Simon, Pampanga.

The relief distribution is a continuing effort being done by Mapua University to help those people affected by disasters and calamities.

Meanwhile, the coordinators of Brgy. San Juan and Brgy. San Simon expressed their gratitude for the donations of Mapua University.



Office for Social Orientation and Community Involvement Programs



Mapua University staff distribute packed relief goods to residents in Brgy. San Miguel and Brgy. San Juan, San Simon, Pampanga after Typhoon Karding hit the province





Mapua University staff distribute packed relief goods to residents in Brgy. San Miguel and Brgy. San Juan, San Simon, Pampanga after Typhoon Karding hit the province



Livelihood Program for the Indigent Families of Barangay 872 Zone 95, Pandacan, Manila

The Mapua University through its Office for Social Orientation and Community Involvement Programs (SOCIP) distributed livelihood materials to selected indigent families of Barangay 872 Zone 95 in Pandacan, Manila as part of its effort to help its adopted communities especially those families in the low-income bracket create an additional source of income and improve the quality of life of the people.

The distribution of items took place from December 26, 2022 – January 26, 2023.

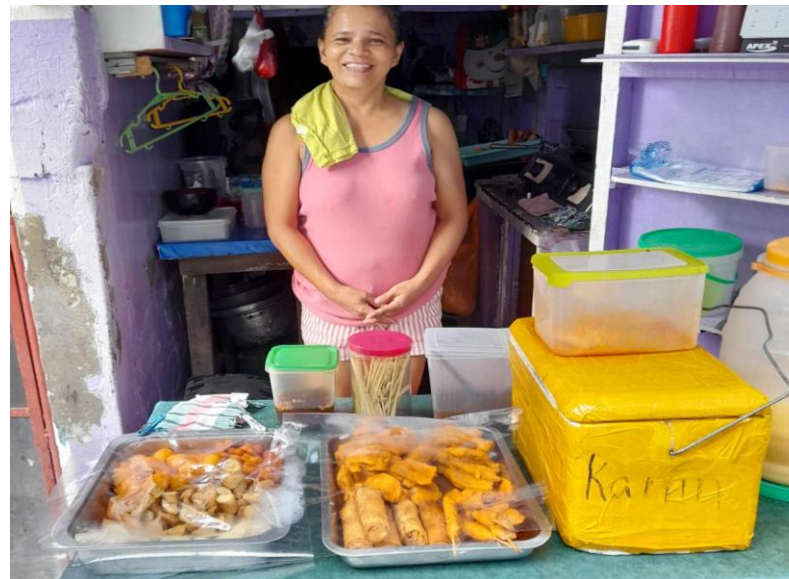
Chairman Eduardo Lozada and his Council were so thankful for the opportunity given to them by Mapua University and agreed to support the University in all its endeavors in the future.



Office for Social Orientation and Community Involvement Programs



Pictures of the recipients of Mapua University's livelihood program for Brgy. 872 Zone 95 in Pandacan, Manila



Installation of Solar Panels in Selected Barangays in the Cordillera Province

The Mapua University through its Office for Social Orientation and Community Involvement Programs (SOCIP) went to the province of Cordillera to install solar panels in the selected barangays of Tabuk City and Abra. This part of the initiative of the University in promoting affordable and clean energy in relation to United Nations Sustainable Goal 7.

The activity was held from April 18 – May 1, 2023.

Twenty (20) solar panels were installed in Brgy. Dilag, Brgy. Ipil, Brgy. Nambaran, Brgy. Lacnog East, Brgy. Agbannawag, Brgy. Lacnog West, Brgy. Bulog, Brgy. Cudal, Brgy. Calaccad, Brgy. Balawag, Brgy. Suyang, Brgy. Amlao, Brgy. Naneng, Brgy. New Tanglag, Brgy. Lucog, Brgy. Dupag, Brgy. Bagumbayan, Brgy. Magnao, Brgy. Nambucayan, Brgy. Guilayon, Brgy. Saclit, Brgy. San Isidro, Brgy. Layugan, Brgy. Sabnanga, Brgy. Nagbukel-tuquipa, Brgy. Lulluno, Brgy. Bila-bila, Brgy. San Ramon West, Brgy. Ducligan, Brgy. Labaan.

Mapua University aims to target more provinces where solar energy is viable.



Office for Social Orientation and Community Involvement Programs





Community Conference 2023: Strengthened Commitment. Achieving Goals.

The sixteenth (16th) Community Conference with the theme, “Strengthened Commitment. Achieving Goals. Contributing to the Attainment of the United Nations Sustainable Development Goals” was held last 09 December 2023 through Hyflex mode. In-person participants gathered at Brgy. 837 Zone 91, Pandacan, Manila while online participants joined via Zoom Meet.

The conference focused on the community service orientation provided to the residents of the community where the results of the surveys and needs analysis were presented. It highlighted three (3) United Nations Sustainable Development Goals (UN SDGs) namely: SDG 6 Clean Water and Sanitation, SDG 7 Affordable and Clean Energy and SDG 16 Peace, Justice and Strong Institutions which are the initiative targets for the year 2024.



Pledge of Commitment 2023

6 CLEAN WATER
AND SANITATION



16th Mapúa Community Conference 2023 [ComCon2023]:
Strengthened Commitment. Achieving Goals 09DECEMBER2023 HYFLEX MODE



Pledge of Commitment 2023

16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



16th Mapúa Community Conference 2023 [ComCon2023]:
Strengthened Commitment. Achieving Goals 09DECEMBER2023 HYFLEX MODE



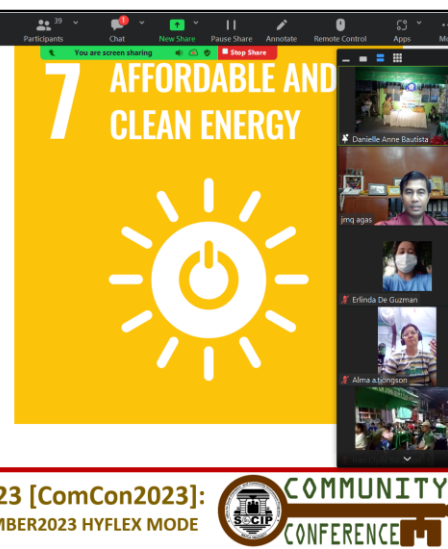
Community Conference 2023 – Pledge of Commitment

Community Officers and Representatives expressed their dedication to the mission of service through the Pledge of Commitment. This was one of the highlights during the sixteenth (16th) Community Conference was held last 09 December 2023 through Hyflex mode. Both in-person participants at Brgy. 837 Zone 91, Pandacan, Manila and online participants in the Zoom Meet partook in the ceremony.

The pledge centered on the three (3) United Nations Sustainable Development Goals (UN SDGs) namely: SDG 6 Clean Water and Sanitation, SDG 7 Affordable and Clean Energy and SDG 16 Peace, Justice and Strong Institutions. Collaborative efforts shall focus on the said global goals as initiative targets for 2024.



Pledge
of
Commitment
2023



Pledge of Commitment 2023



16th Mapúa Community Conference 2023 [ComCon2023]:
Strengthened Commitment. Achieving Goals 09DECEMBER2023 HYFLEX MODE



Pledge of Commitment 2023



16th Mapúa Community Conference 2023 [ComCon2023]:
Strengthened Commitment. Achieving Goals 09DECEMBER2023 HYFLEX MODE



Barangay Tanod Skills Enhancement Module 3

As a continuation of the seminar series given by Mapua University covering the DILG Manual on Barangay Tanod Skills Enhancement for Barangay San Andres and Barangay Sto. Nino in Tanay, Rizal, the SOCIP staff administered “Seminar-Workshop on SDG #16: Peace, Justice and Strong Institutions (Barangay Tanod Skills Enhancement Module 3)”. It was done at the covered court of Brgy. San Andres where participants were comprised of barangay officers, barangay tanods and resident volunteers both from Brgy. San Andres and Brgy. Sto. Nino. The seminar proper started with a review of last year’s “Seminar - Workshop Series; Barangay Tanod Skills Enhancement Module 1 & 2” to bridge the Module 3 which covers “Barangay Tanod as First Responders”. Discussed with the participants includes topics on (1) Crime scene protection and preservation; (2) Crisis management; and (3) Incident report writing. A total of forty-eight (48) participants attended the activity. SOCIP bought snacks which was prepared by one of the residents of Brgy. Sto. Nino. This is to support the livelihood of the residents. SOCIP also provided gift packs to all participants. Printed certificates shall be prepared by the SOCIP office for the attendees.

The activity is a sustained project of Mapua University’s Office for Social Orientation and Community Involvement Programs in support to the UNSDG # 16 – Peace, Justice and Strong Institutions.



Student Activities



MAPÚA
UNIVERSITY



OFFICE FOR SOCIAL ORIENTATION AND
COMMUNITY INVOLVEMENT PROGRAMS

Two & Three-Dimensional Shapes



of Mapua and today I will discuss two and three-dimensional shapes

Creation of Micro-Lecture Videos (MLV) for Junior High School Geometry

To support the online delivery of the Alternative Learning Equivalency and Accreditation Program (ALEAP) of Mapua University, the student members of the organization Honor Society of Mapua participated in the creation of micro-lecture videos on selected topics for Junior High School Geometry. The creation of MLVs was conducted from June 15, 2023 – July 5, 2023.

The student organization decided to contribute on the topics: Two and Three-Dimensional Shapes, Coordinate Geometry, Transformations and Symmetry, Spatial Visualization, Reasoning and Geometric Modelling, and Geometric Proofs.

The micro-lecture videos can be viewed in the Dunong Lingkod website of Mapua University and can be accessed freely by the learners. <https://dunonglingkod.mapua.edu.ph/>

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

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

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

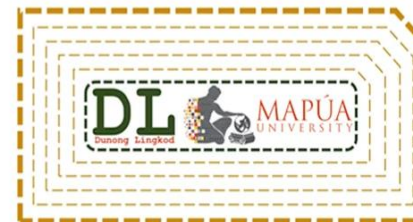
sixth is a sphere it is a three-dimensional solid figure that is perfectly round and every point on

Auxiliary Learning Resources

Coordinate Geometry



Using coordinates to represent points lines and shapes shapes on a plane



Coordinate Geometry

Formulas

Area of a Triangle

$$A = \frac{1}{2}(x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_2 - y_1))$$

Centroid of a Triangle

$$(x, y) = \left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right)$$

as previously mentioned points can also be connected to form shapes such as a triangle

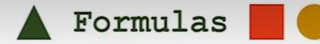
Auxiliary Learning Resources

Coordinate Geometry



Using coordinates to represent points
lines and shapes on a plane

Coordinate Geometry



Area of a Triangle

$$A = \frac{1}{2}(x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_2 - y_1))$$

Centroid of a Triangle

$$(x, y) = \left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right)$$

as previously mentioned points can also be
connected to form shapes such as a triangle

Auxiliary Learning Resources

TRANSFORMATIONS AND SYMMETRY



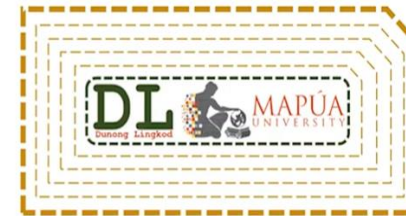
Screenshots of the Creation of Micro-Lecture Videos (MLV) created by the Honor Society of Mapua

Transformation		Function	Result
Rotation	Isometric	Rotates the pre-image around an axis	No change in size or shape
Reflection		Flips the pre-image, yields a mirrored image	No change in size or shape or orientation
Translation		Moves the pre-image	The direction is changed but no change in size or shape
Dilation	Non-Isometric	Stretches or shrinks the pre-image	There is a change in shape because it may expand or contract.

reflection uh it flips the pre-image which yields
a mirrored image again there will be no change

Auxiliary Learning Resources

Spatial Visualization, Reasoning and Geometric Modeling

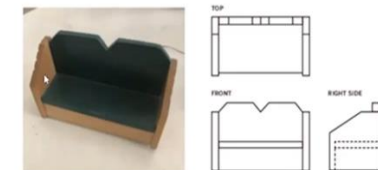


Good day everyone and welcome to our video
lecture on spatial visualization reasoning

GEOMETRY



Refer to the sample of Orthographic View in the
image below.



<https://designmuseumfoundation.org/orthographic-projection/#:~:text=An%20orthographic%20projection%20is%20a,%2C%20front%2C%20and%20right%20side>

Auxiliary Learning Resources





OFFICE FOR SOCIAL ORIENTATION AND COMMUNITY INVOLVEMENT PROGRAMS

socip@mapua.edu.ph

8247-5000 loc. 1103/
Manila, Philippines

Joyrence Mervin Q. Agas

Director

Alma A. Canlas

Technical Assistant

Percival C. Parungao

Records Management Officer

Michelle C. Ricafrente

Social Worker for Socio-Civic Support and Delivery System