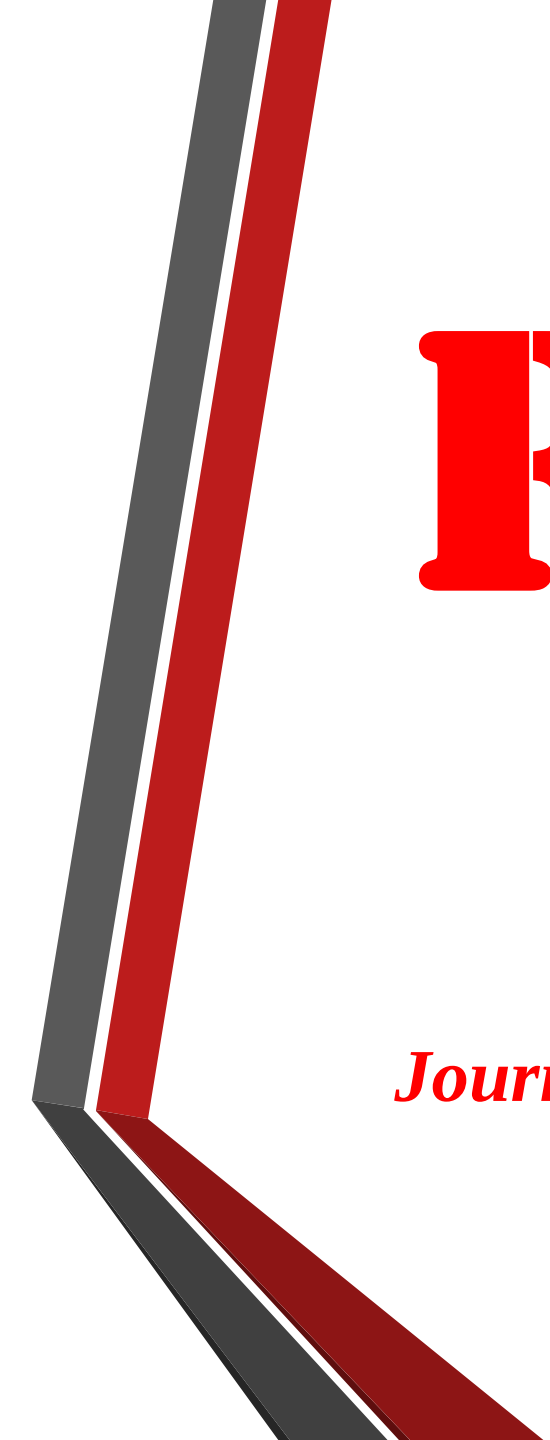
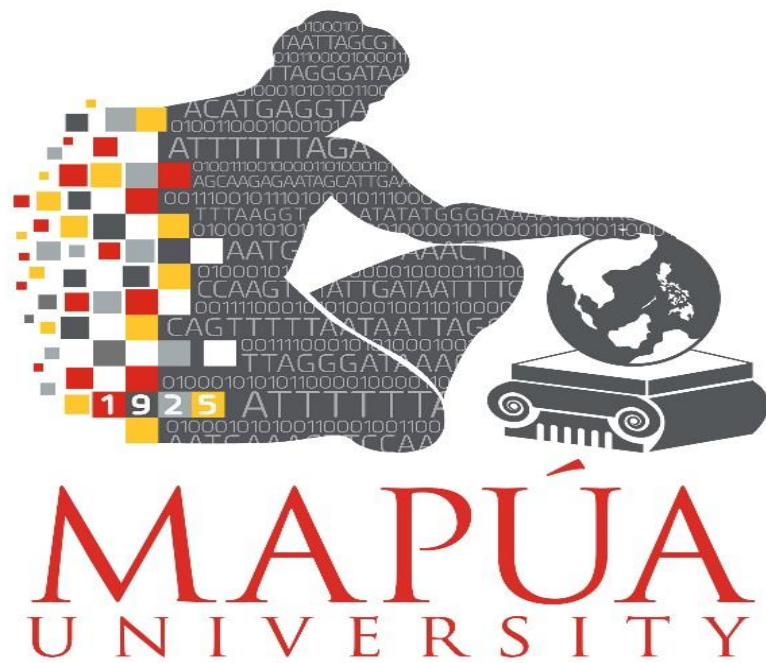


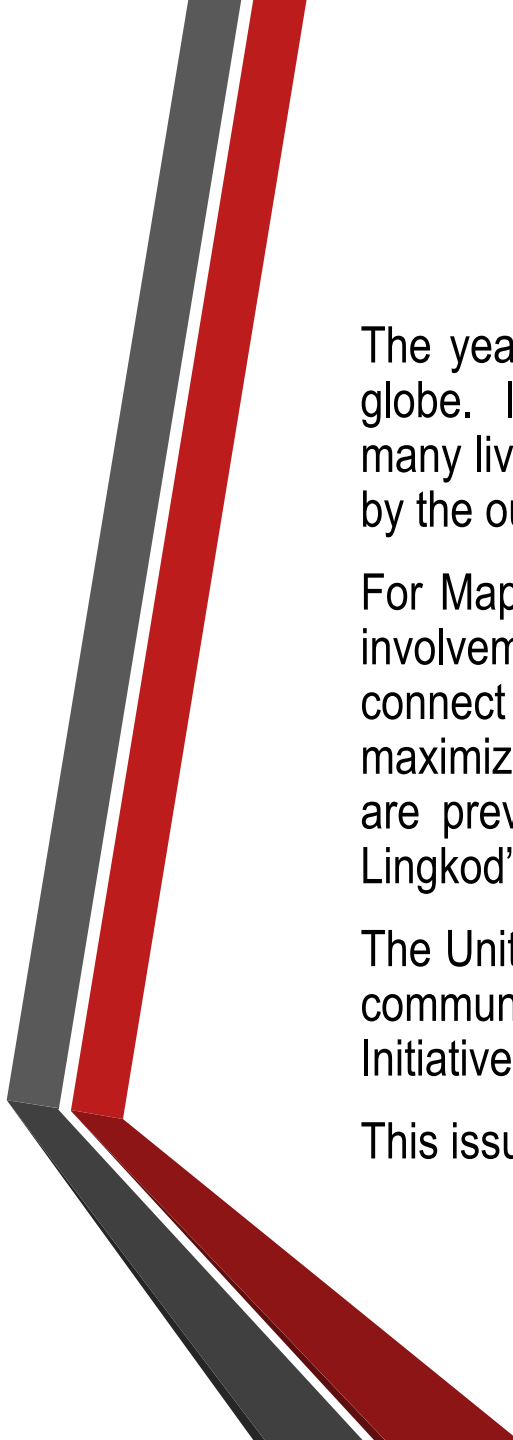


RADIANCE

2020

*Journal of Social Orientation and Community Involvement of
Mapúa University*





INTRODUCTION

The year 2020 has been a challenging year for everyone not only for Filipinos but for everyone around the globe. In the Philippines, the first quarter of the year was startled by the Taal Volcano eruption which placed many lives in great danger and left hundreds of families homeless. A few months later, the world was afflicted by the outbreak of the Covid-19 virus which until now poses a serious life threatening infection to everyone.

For Mapúa University, although it has been a challenging year, the effort in rendering social and community involvement activities still continues. While everything may seem improbable, the University was able to connect and reach out to the community to implement activities that are timely and sensible. Technology was maximized through the use of social media platforms and other online web applications to realize activities that are previously done face-to-face. Online lifelong learning has been made available through the “Dunong Lingkod” portal of the University.

The United Nation’s Sustainable Development Goals serve as the core guide of Mapúa’s social orientation and community involvement activities. Apart from it, its unique Social Orientation and Community Involvement Initiatives support the directives of the University for the welfare and betterment of the people in the community.

This issue of the **RADIANCE Journal 2020** showcases the activities of Mapúa University for the year 2020.

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.



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.



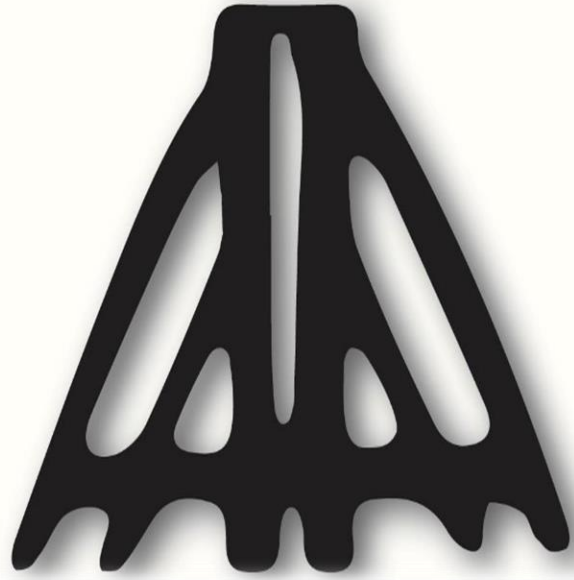
Aid and Infrastructure

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 Institute's facilities.

TABLE OF CONTENTS

School of Architecture, Industrial Design and the Built Environment	1-4
School of Chemical, Biological and Materials Engineering and Sciences	5-6
School of Electrical, Electronics and Computer Engineering	9-12
School of Industrial Engineering and Engineering Management	13-15
School of Information Technology	16-17
School of Manufacturing and Mechanical Engineering	18-20
Department of Arts and Letters	21-22
School of Social Sciences and Education	23-24
Department of Mathematics	25-26
Department of Physics	27-28
Institutional Activities	29-34
Student Activities	35-38



*School of Architecture,
Industrial Design and the Built
Environment*

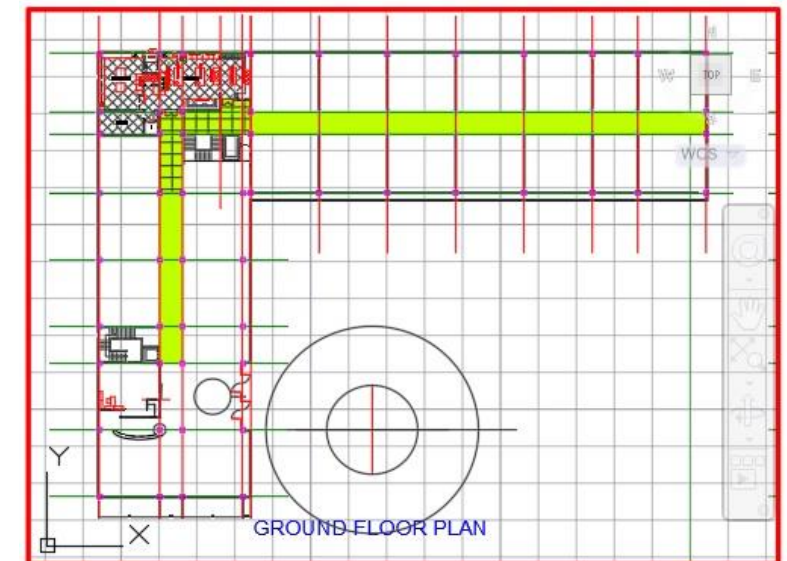
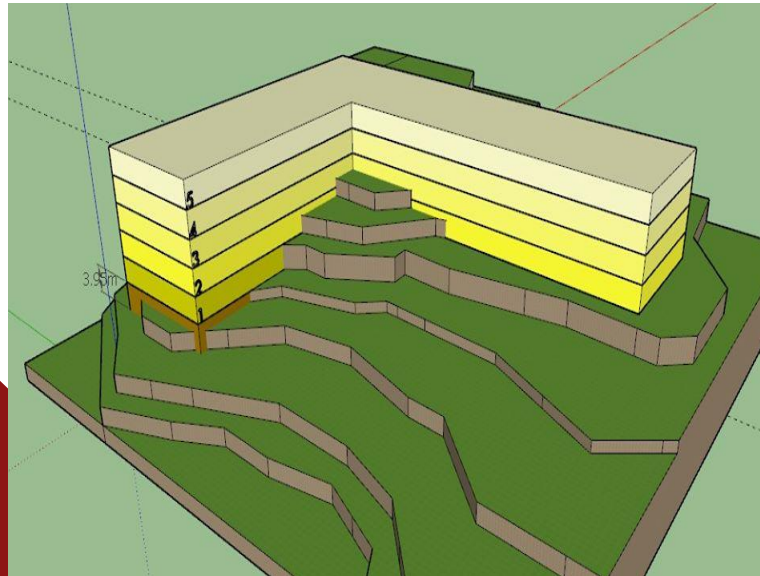
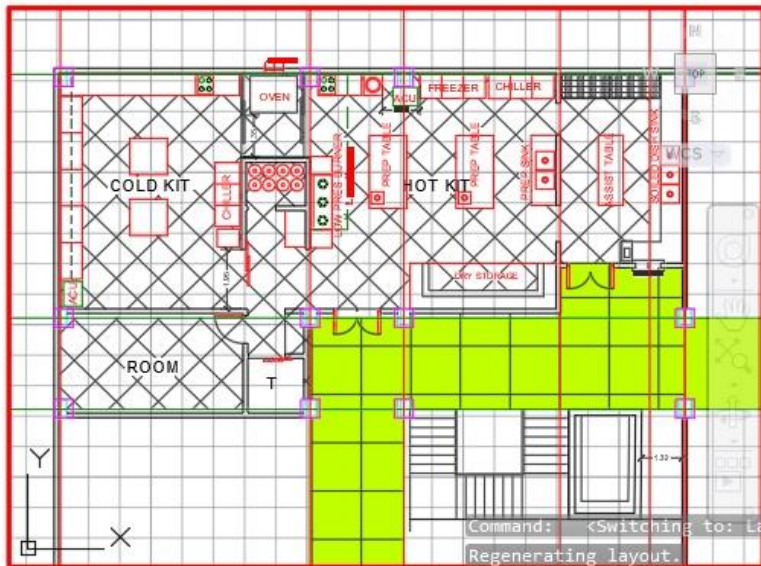


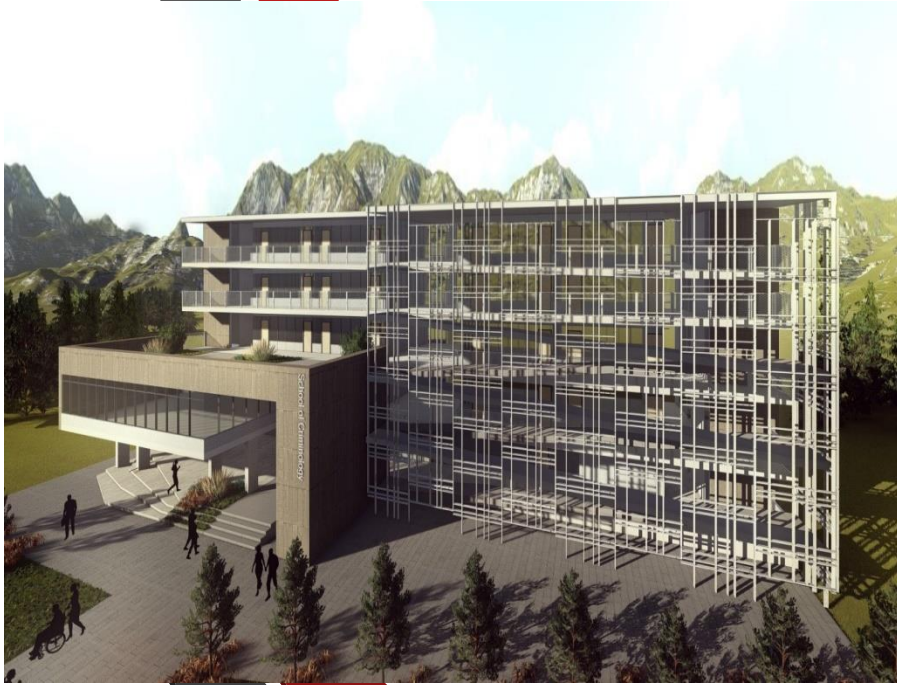
Proposed HRM Schematic Plans

Mapua University was requested by Mountain Province State Polytechnic College (MPSPC) to assist them in the designs of their proposed HRM and Criminology buildings.

The School of ARIDBE submitted the preliminary plans that are scheduled for consultation with the user or recipient of the study. The basic layout has been presented.

Photo on the upper left shows the actual location of the project. Photos below show the schematic plans made by the School of AR-IDBE.

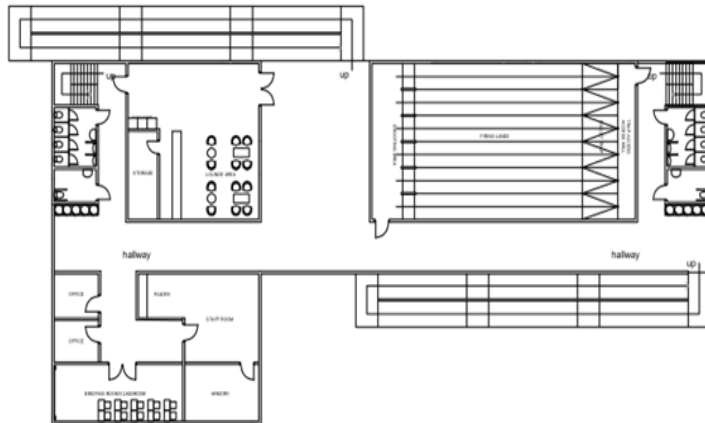




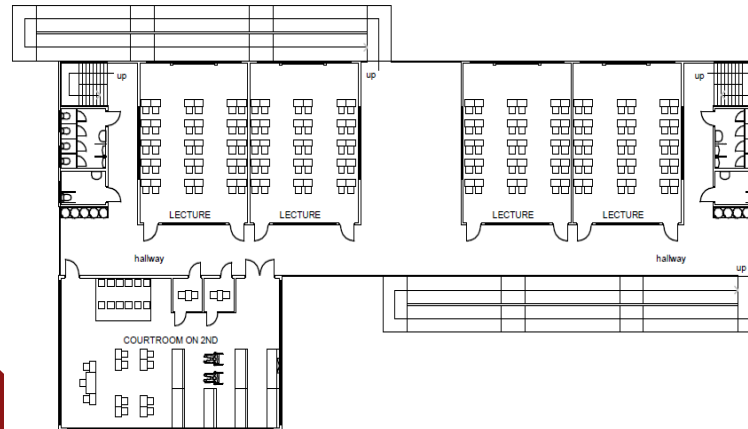
Proposed Revision of MPSPC College of Criminology Building

The final output for the revision of the Proposed MPSPC College of Criminology Building are architectural drawings consisting of floor plans from basement to fifth floor, four elevations composed of front, left side, right side, rear side and two sections consisting of longitudinal and cross. A digital rendered perspective of the revised building has been prepared also. The revised drawings shall be subject to the approval of the beneficiaries again.

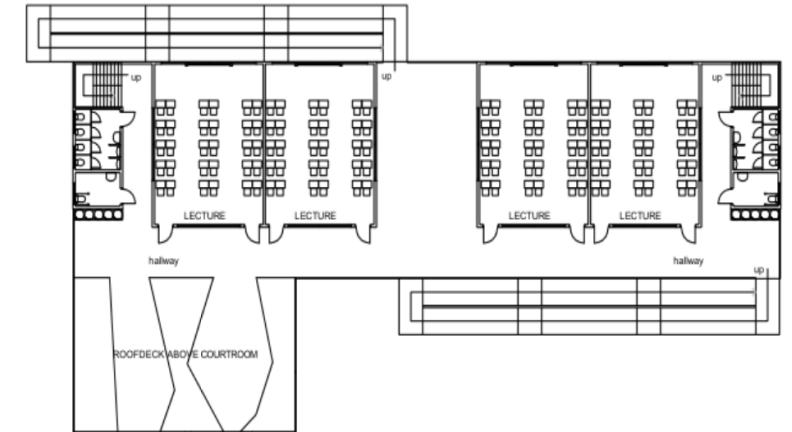
Photos shown are the designs submitted to MPSPC for review and approval.



BASEMENT FLOOR PLAN



SECOND FLOOR PLAN



TYPICAL 3RD AND 5TH FLOOR PLAN



Seminar on Practical Disaster Preparedness for Residential Communities

A faculty of the School of Architecture, Industrial Design and the Built Environment together with some students went to Gawad Kalinga in Dasmariñas, Cavite to conduct a seminar on Practical Disaster Preparedness. The activity was attended mostly by housewives in the community.

The discussion focused on relevant proactive approaches in ensuring safety at homes in the advent of seasonal typhoons, fire and epidemics.

Photo on the upper left shows the faculty and students of Mapua. Photos below show the participants attending the seminar.





*School of Chemical, Biological,
Materials Engineering and
Sciences*

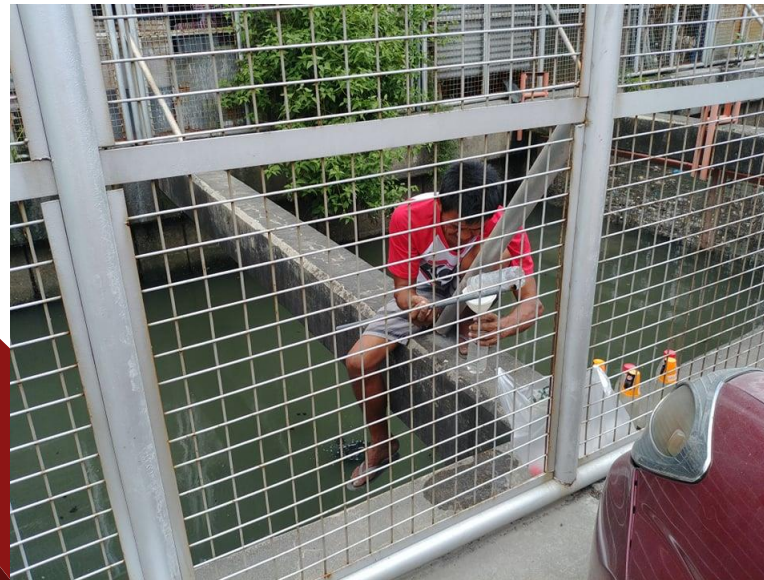
Microbiological Quality of Tap Water in Selected Barangays of Pandacan, Manila

The faculty and students of the School of Chemical, Biological and Materials Engineering and Sciences (CBMES) conducted microbial tests on the water samples of selected barangays in Pandacan, Manila. The project aims to orient the residents about the quality of water that is being used in the community and create awareness to the public on the importance of implementing the drinking water quality standards, impact of water contamination on health, and control measures on addressing water quality issues and problems.



The activity was done on March 2020 in selected barangays in Pandacan, Manila.

Photo on the left shows one of the sampling sites in the community. The samples were tested in one of the laboratories at Mapua University. Photo on the right shows the gathered water being prepared for testing.





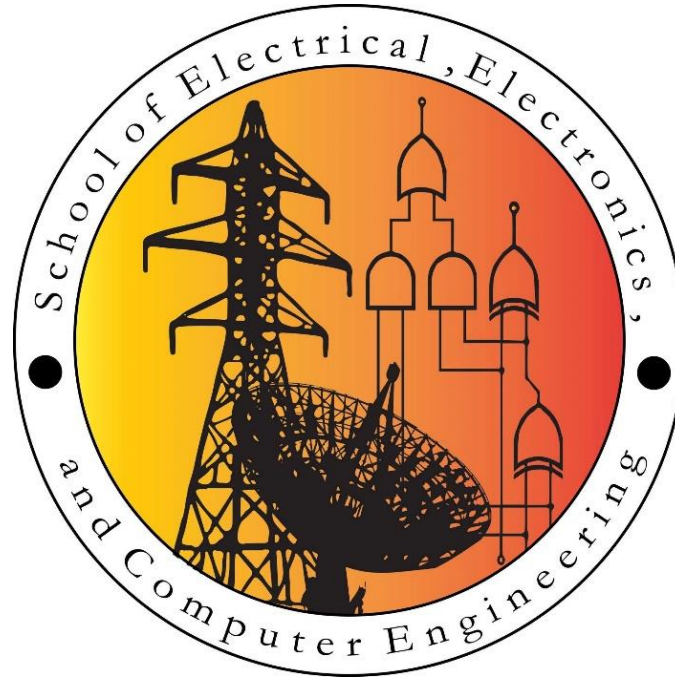
School of Civil, Environmental and Geological Engineering

Proposed MPSPC College of Criminology Building (Structural Steel Design and Analysis and Sewage Treatment Plant)

The Mountain Province State Polytechnic College (MPSPC) requested the assistance of Mapua University in the Structural Steel Design and Analysis and Sewage Treatment Plant of their proposed MPSPC College of Criminology Building. The architectural drawings were submitted to the School of Civil, Environmental and Geological Engineering by the School of Architecture, Industrial Design and the Built Environment.

The assigned faculty members for the project tapped the assistance of the students in doing the calculation of all possible structural loadings applicable to the structure and how the sewage treatment plan can be established in the design. The faculty also guided them in the process of analysis and design of all structural members starting with the purlins, trusses, beams girders and columns. For the sewage treatment plant, the design should comply to the standards set by the Philippine government.





School of Electrical, Electronics and Computer Engineering

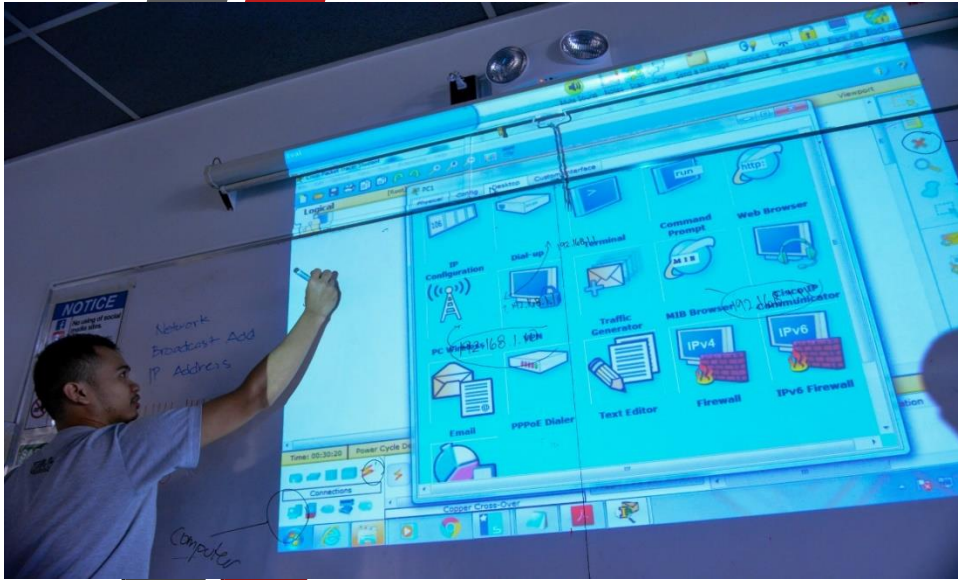


Basic Electrical Circuit for SHS Students

Mapúa University through the School of Electrical, Electronics and Computer Engineering offered a free seminar on Basic Electrical Circuit. The activity was a continuation of the previous seminars conducted by the School of EECE from the previous years. Attendees of the activity were the selected Senior High School students of Claro M. Recto Senior High School in Legarda, Manila.

The lectures covered topics on PEC Applications, Assembly and Wiring of a Panel Board and Basic Electrical System Installation. Written examination was given to gauge the learnings of the participants after the activity.

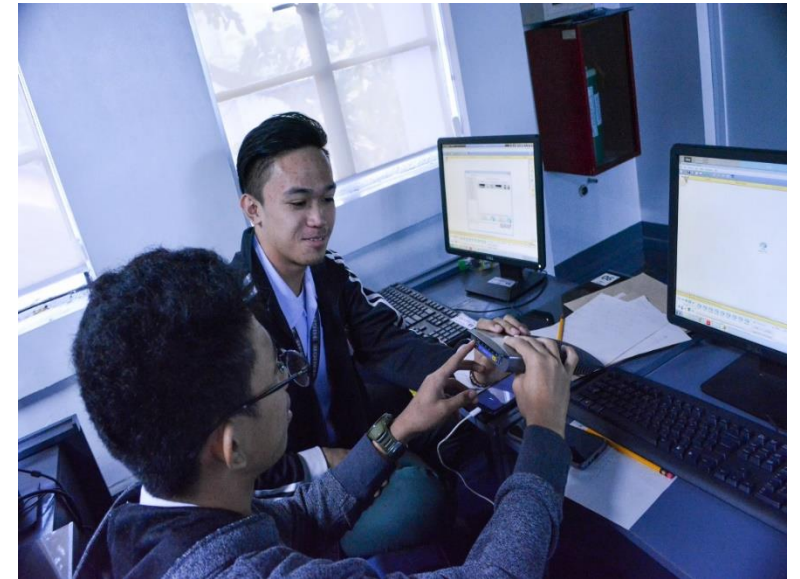
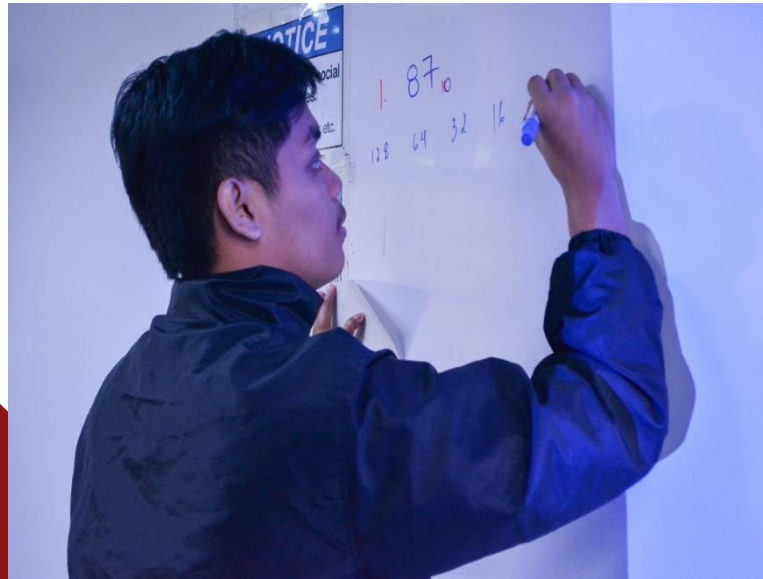


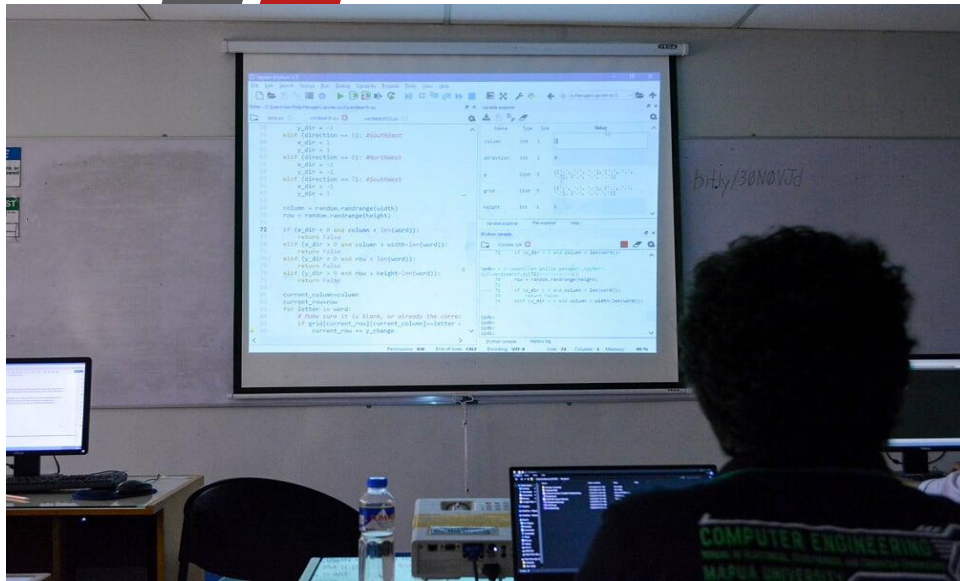


PC Troubleshooting and Networking

Mapúa University through the School of Electrical, Electronics and Computer Engineering continued its series of seminar on PC Troubleshooting and Networking. Attendees were the Senior High School students of Claro M. Recto Senior High School in Legarda, Manila. The activity introduced the simulated environment using Packet Tracer.

Packet tracer environment was introduced to locate the network devices such as switch, router, layer 3 devices, host such as PC, command line and types of connection for specific host/device. Student participants created the topology on their own with the assistance from the student facilitators.





Python Application Development

The activity on Python Application Development was a continuation of the previous seminars conducted by the School of EECE. The school has conducted its 4th module for the Senior High School students of Claro M. Recto Senior High School.

Participants were guided by Mapua student facilitators to assist them on their concerns during the course of the activity.

Computer laboratory rooms were provided for them to better understand the topic and be able to feel the life of a Mapúan.





School of Industrial Engineering and Engineering Management

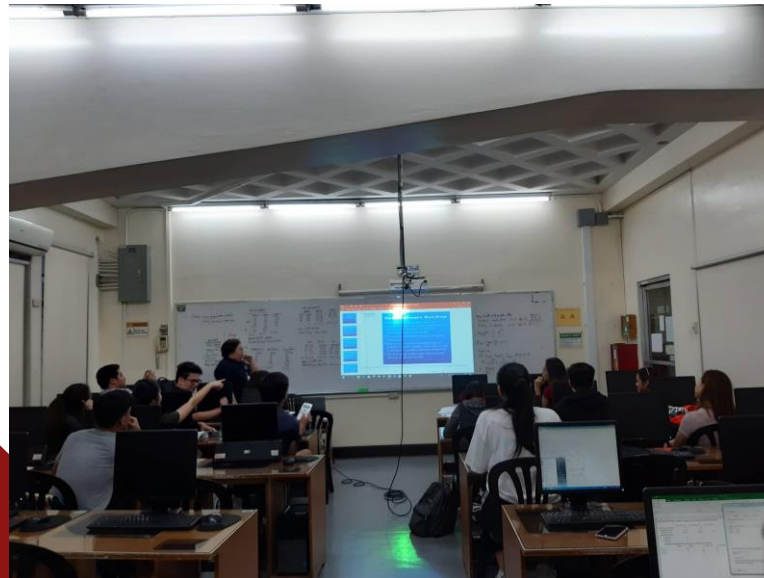


IE Exit Exam Review for Mapuans

In its objective to increase the rate of students passing the IE Exit Exam to be able to take higher courses, the School of Industrial Engineering and Engineering Management continues to offer free Exit Exam Review for Mapuans.



Faculty members facilitated the review sessions from July 2019 – February 2020 to teach several topics like Operations Research 1 and 2 and Statistics; Engineering Economy; Methods Engineering 1 and 2; and Engineering Economy and Production Systems.



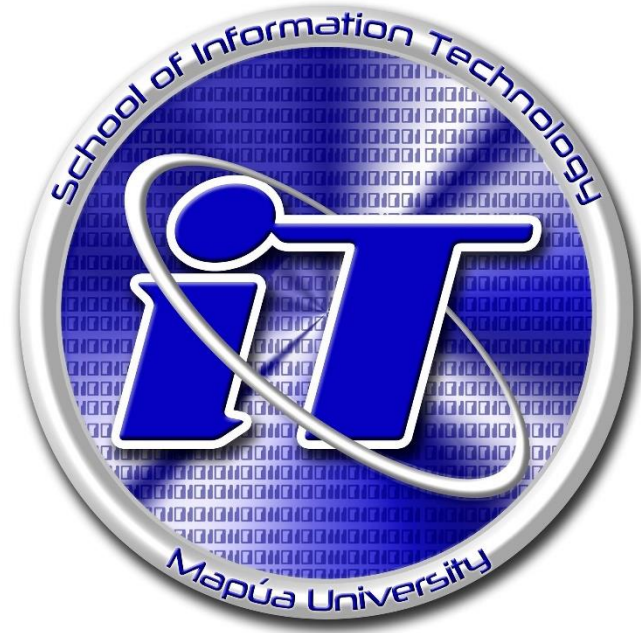


ISO 9001:2015 Preparedness for National Privacy Commission

The School of Industrial Engineering and Engineering Management through one of its faculty members was tapped by the National Privacy Commission to prepare the office for the aspired ISO 9001:2015 certification.

Mr. Fantillo who has a consulting practice on process management facilitated the seminar for the employees of NPC. The output initiatives were: 1) Provide NPC the necessary framework and methodology on how to implement the ISO pillars towards certification; 2) Provide situation examples that can be used as models for NPC's aspirations; and 3) Equip NPC with the knowledge on SIPOC and process narratives.





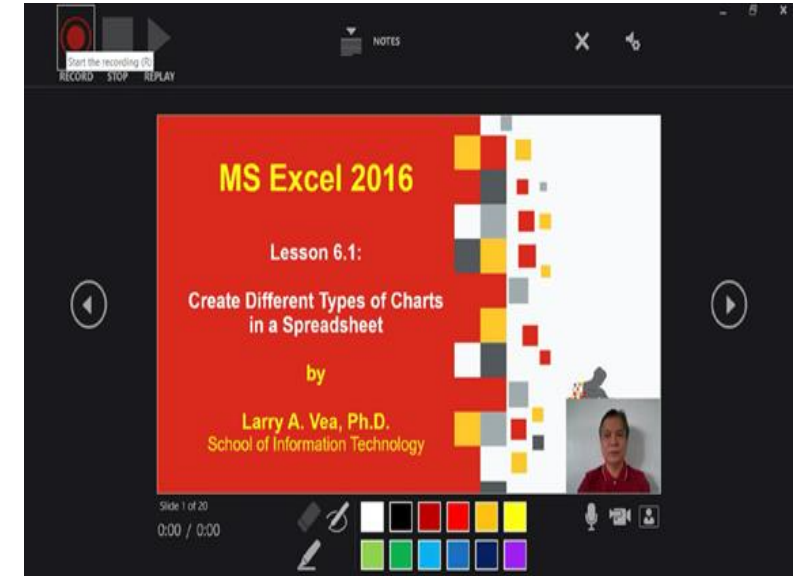
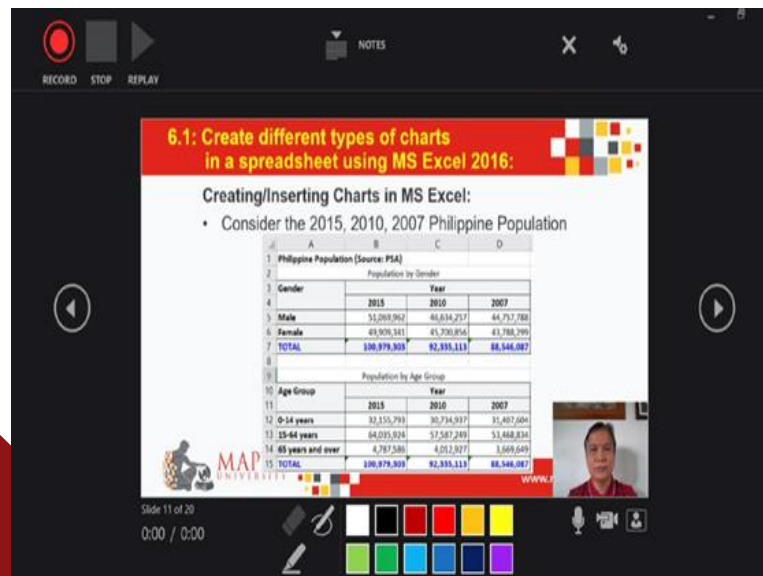
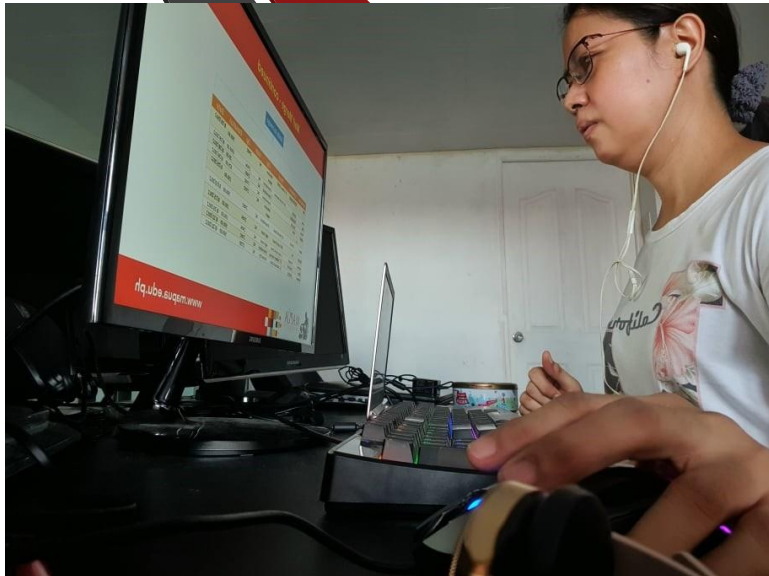
School of Information Technology

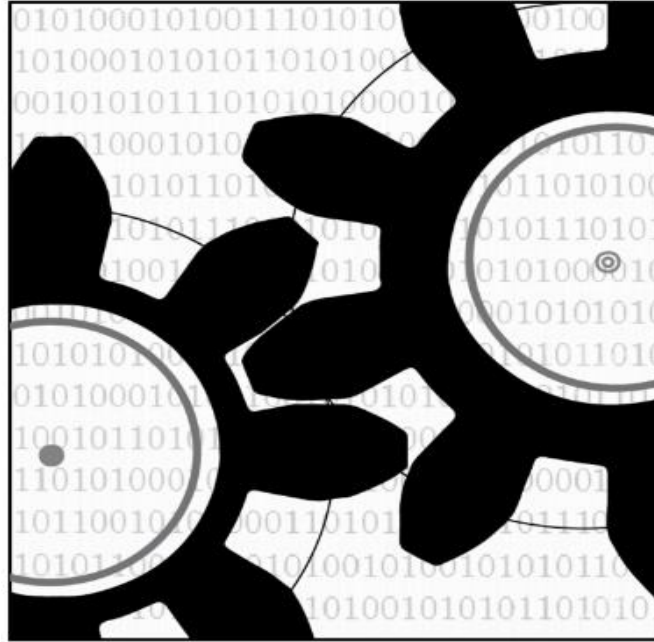


Micro Lecture Video Making

To support the services being rendered to the learners of the Alternative Learning and Equivalency Accreditation Program of Mapúa University during the pandemic, the School of IT created some micro video lectures on the different strands on learning competencies of the Department of Education.

Video lectures covered the different principles in digital literacy such as Word Processing, Spreadsheets and Presentation Softwares. MVLs were stored in the “Dunong Lingkod” website portal of Mapúa University which can be accessed by the learners.





School of Mechanical and Manufacturing Engineering



Basic Welding and Grinding Workshop

The School of Manufacturing and Mechanical Engineering conducted again a free seminar-workshop entitled “Basic Welding and Grinding Workshop” last February 22 and 29, 2020 at Mapua University, Intramuros, Manila. With the aim to teach, practice and give hands-on experience to the participants, the 2-session whole day activity was participated by 20 people.

Faculty members shared their expertise by sharing their actual experiences in the academe and in the industry setting.

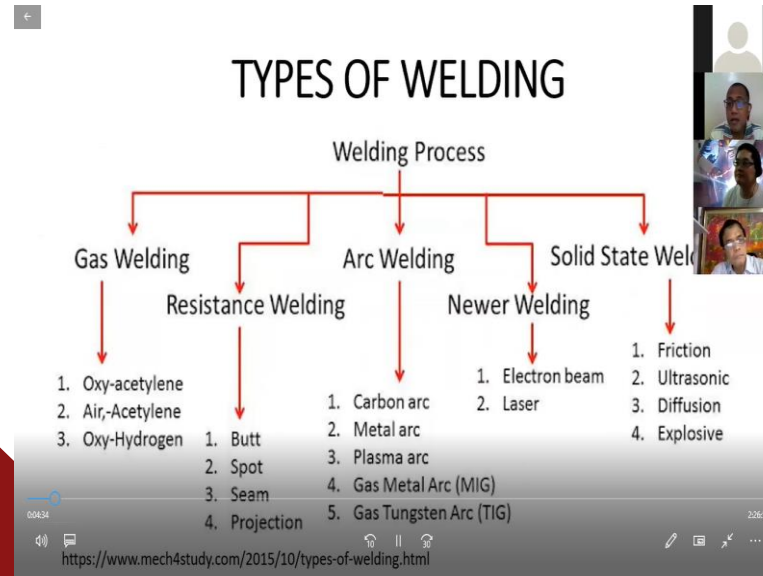




First Welding Webinar

The School of Manufacturing and Mechanical Engineering conducted its first ever Welding Webinar on October 3, 2020 to give opportunity to people in the community who want to learn about basic welding even at the comfort of their homes. The activity used the Zoom Meeting and was attended by more than 100 participants.

Faculty members gave lectures on their field of expertise and shared their actual experiences in the academe and in the industry.





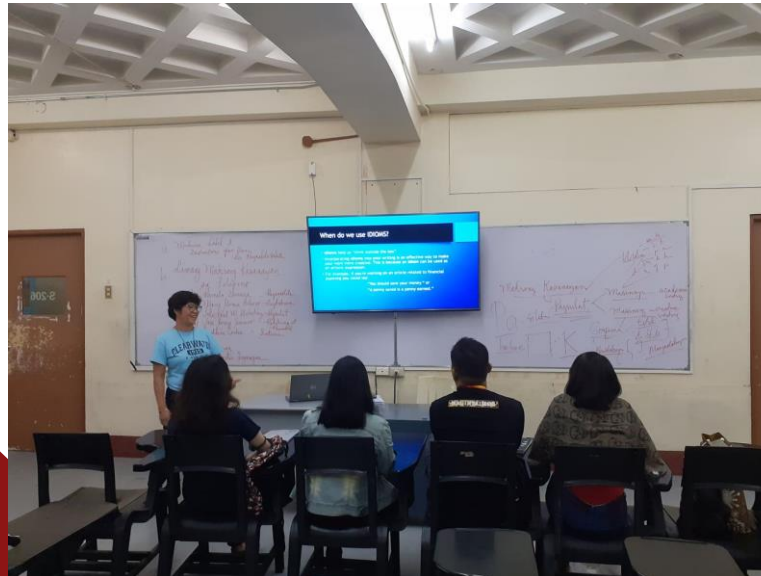
Department of Arts and Letters



Tutorial Sessions for ALEAP Learners

The Department of Arts and Letters continually supports the activities of the Alternative Learning and Equivalency Accreditation Program (ALEAP) of Mapua University by providing tutorial lessons in Filipino and English subjects. The lessons were facilitated by the faculty members of the said department.

The modular lessons aim to complement skills and knowledge that the learners should be learning from formal education. The activity ran from October 2019 to March 2020.





*School of Social Sciences and
Education*

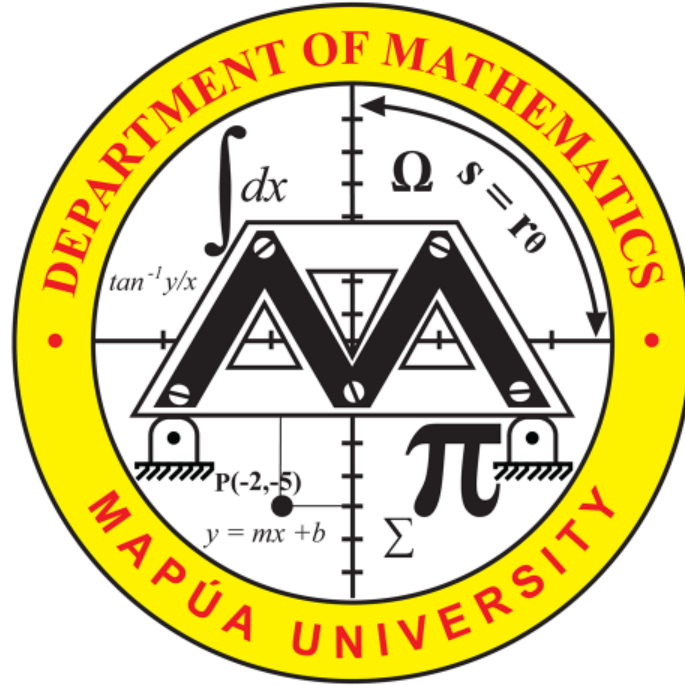


Disaster Management and Stress Debriefing for ALEAP Learners

To help the learners of the Alternative Learning Equivalency and Accreditation Program not just on the basic subjects such as Math, Science, English and Filipino, the School of Social Sciences and Education created a program for them to enhance their knowledge on the different topics on Social Sciences.

Disaster Management and Stress Debriefing was one of the topics included to discuss with the learners the intervention and prevention strategies that might be useful for them to cope up with the modern-day traumas in life.





Department of Mathematics



Review of Mathematics Basic Principles for ALEAP Learners

In support to the program of the Department of Education on Alternative Learning System, the Department of Mathematics continued its tutorial lessons for the out-of-school youths attending the Alternative Learning Equivalency and Accreditation Program of Mapua University.

The learners were given lessons on how to solve Mathematical problems specially on the basic principles in Algebra. The faculty members also gave some tips and suggestions in understanding different Mathematical problems since some Math problems have diverse approach in solving.





Department of Physics



Physics Review Program for ALEAP Learners

To guide the students of Alternative Learning Equivalency and Accreditation Program (ALEAP) on different topics involving Physics and Science, the Department of Physics held a review program which aimed to enhance the knowledge of the students in understanding the basic concepts of Physics.

However, the pandemic caused changes in the mode of teaching given to ALEAP learners. Through the “Dunong Lingkod” portal of the University, micro video lectures were created to facilitate the continuity of the ALEAP review program.





Institutional Activities



Blood Donation Program

As part of Mapua's initiative on Health and Wellness, Bloodletting activity was conducted on January 8, 2020 at the Audio Visual Room of Mapua University. The activity was a tie-up again with Jose R. Reyes Memorial Medical Center, the partner hospital of Mapua since 2004.

The activity was participated by students, non-teaching personnel and faculty members of Mapua community. A total volume of 29,000 cc were extracted from fifty eight (58) successful donors.

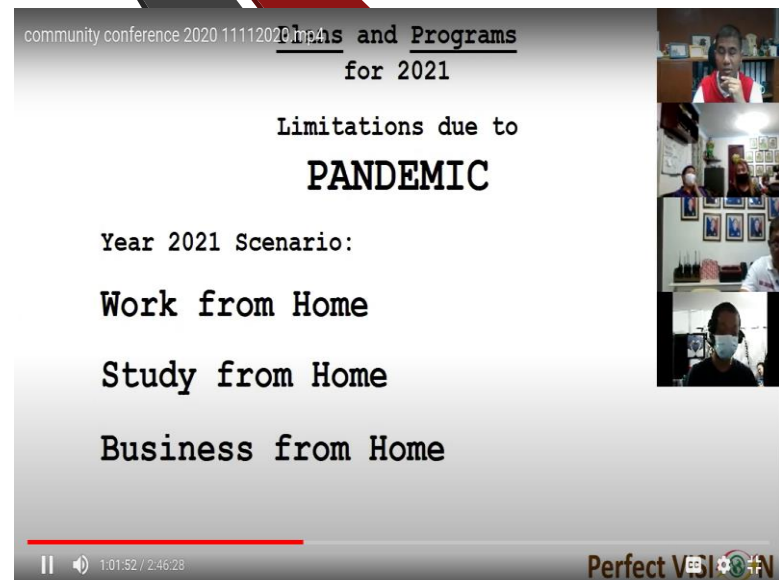




Community Conference 2020

The Mapua University again hosted a Community Conference last November 11, 2020. Dubbed as “Perfect Vision @ 2020 in Attaining UN SDGs”, Mapua University tapped the different barangays in Pandacan, Manila to discuss and assist the barangay officials on how to implement activities that will contribute to the realization of the UN SDGs.

The pandemic situation was not a hindrance to the objective of the University to strengthen its partnership commitment with the community. Despite the health and safety protocols being implemented in the country, the ComCon 2020 was able to achieve its purpose in reaching out to the community and help them draft project proposals that are feasible and significant.





Relief Distribution in Batangas

The Mapua University immediately responded to the cry of Batanguenos after the province suffered an immense damage brought about by the Taal Volcano eruption which happened on the early part of January 2020.

Series of relief goods distribution were scheduled and prioritized to assist the victims. Distributions were done at Brgy. Sinturisan, San Nicolas, Batangas, Brgy. Bagong Sikat, Agoncillo, Batangas, Brgy. Gulod, Labac, Batangas City, Brgy. Tumaway, Talisay, Batangas, Brgy. Payapa, Tamak Padre Garcia, Batangas, Brgy. Pansol Lipa, Batangas and Pedro Paterno Elementary School, Calaca, Batangas. A total of 1,285 packs of relief goods were distributed by Mapua.





School Supplies Distribution in Cordillera

Mapua University went to the province of Bontoc to donate thousands of reference books as part of its plan on enhancing community libraries. More so, hundreds of packed school supplies were also donated to assist the Day Care centers in the area.

Beneficiaries of the activity were Barangay Buyacaoan, Buguias Benguet, Mountain Province State Polytechnic College Tadian Campus, Municipal Library of Bontoc Mountain Province and Benguet State University.





Assistance for Community Frontliners

The Mapúa University extended its help to the communities in Pandacan and Intramuros, Manila by giving face masks, alcohol and liquid hand soap to every barangay during the pandemic.

Five thousand (5000) pieces of face masks, gallons of alcohol and gallons of liquid hand soap were distributed by Mapua University to all the barangay frontliners in Pandacan and Intramuros, Manila.



MAPÚA
UNIVERSITY





Student Activities

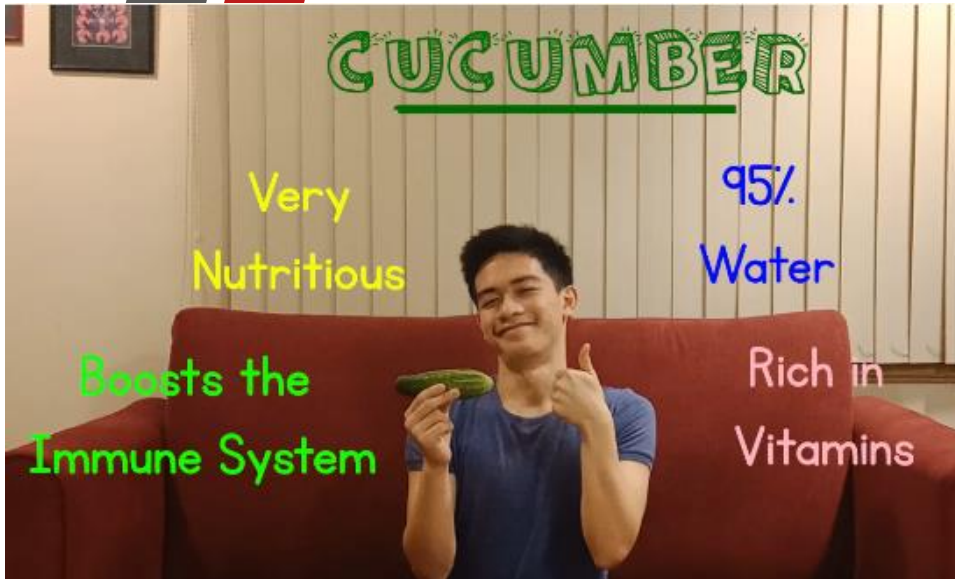


Science Experiments for Kids

The students of Mapua University created Science experiments through video presentation for the kids. The videos were intended to teach the viewers different Science experiments which can be done at the comfort of their homes especially during the pandemic where most of the students are doing classes online.

The videos are available in the online portal of Mapua called as "Dunong Lingkod" where it is offered for free and can be viewed by the public.



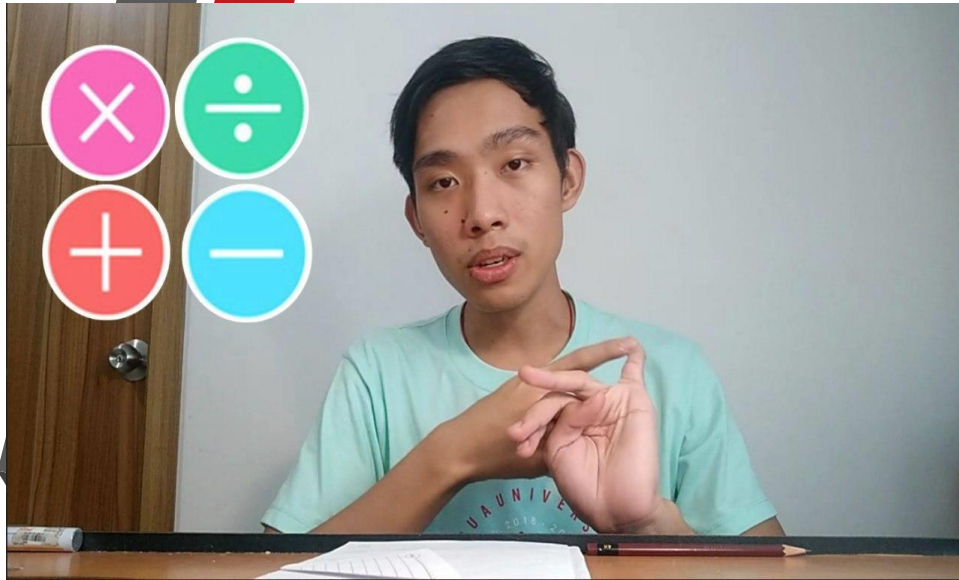


Hygiene and Health Awareness

To instill awareness on proper hygiene and healthy living, the students of Mapua University created videos on topics like Proper Nutrition, Proper Way to Brush Teeth and Proper Way to Wash Hands. The videos were created by the students at the comfort of their homes due to the pandemic situation.

The videos were very timely since the best way to fight the COVID-19 is through proper hygiene and good nutrition.

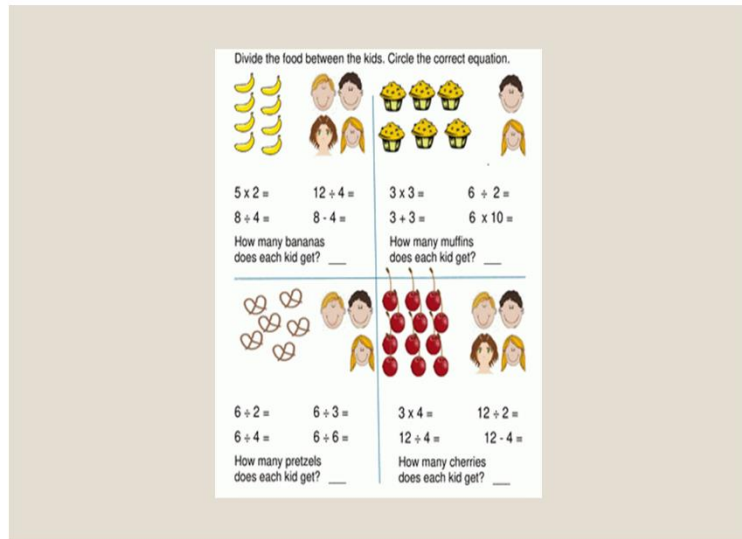




Math and English Lessons for Kids

Basic Math and English lessons were prepared by Mapuans to help the kids in simple basic mathematical solutions and English literacy skills. To make learning more understandable, sample questions were given to enable the kids apply the learnings they gained from the lessons.

The videos and learning materials submitted by the students were stored in an online portal where it can be downloaded for free.





Office for Social Orientation and Community Involvement Programs (SOCIP)
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