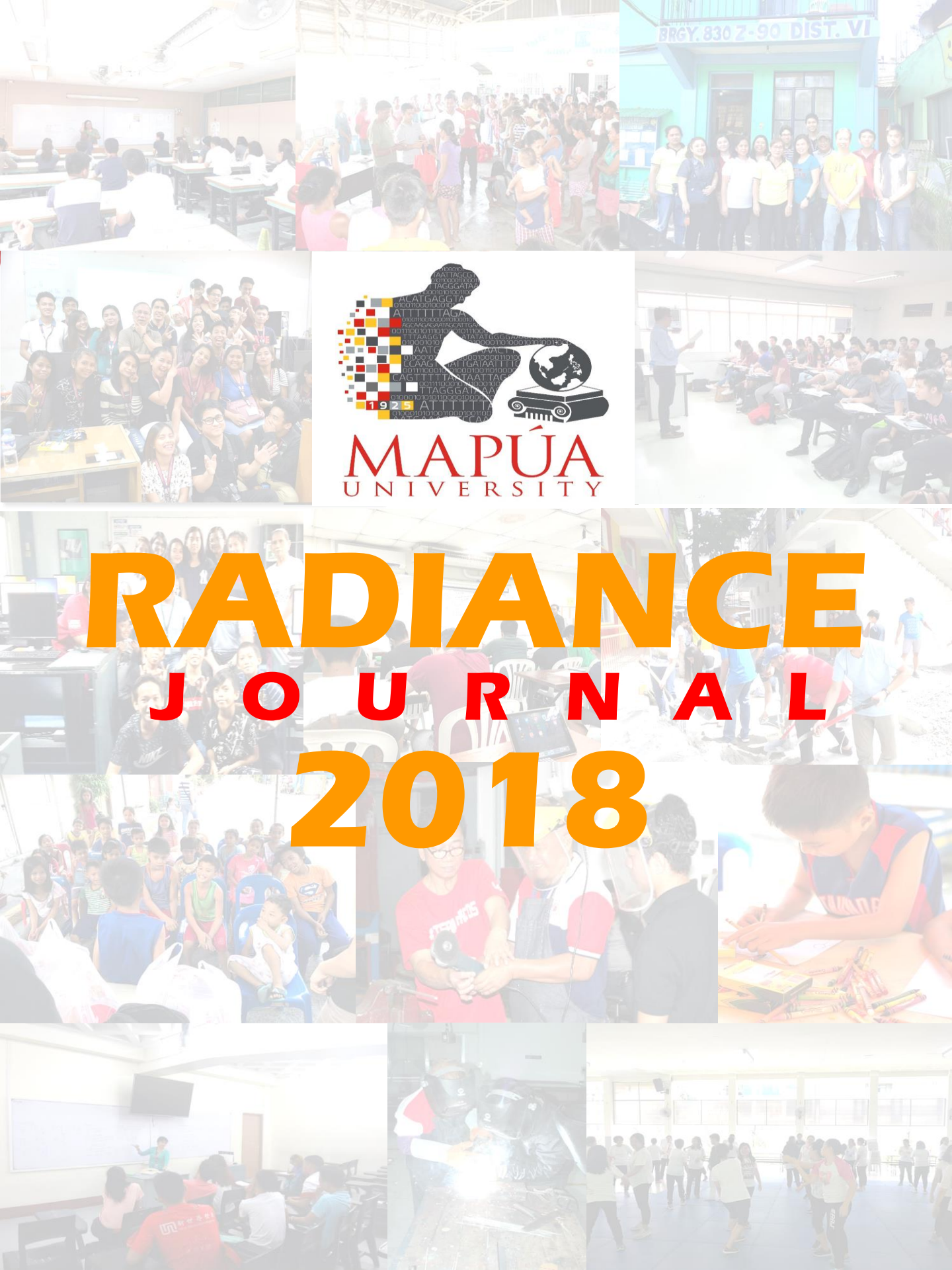




RADIANCE

JOURNAL

2018



RADIANCE 2018

The Official Extension Service Journal of Mapúa University

Introduction

Consistent with its Mission and Vision, Mapúa University has, through the years, created programs to address the needs of its adopted communities. Below are the key areas of extension service that the University has focused on.



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 Institute. 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.



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 Mapúa's facilities.



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

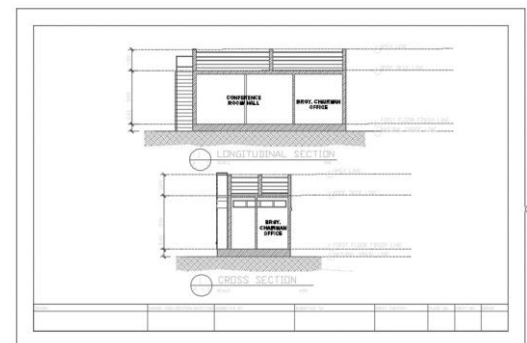
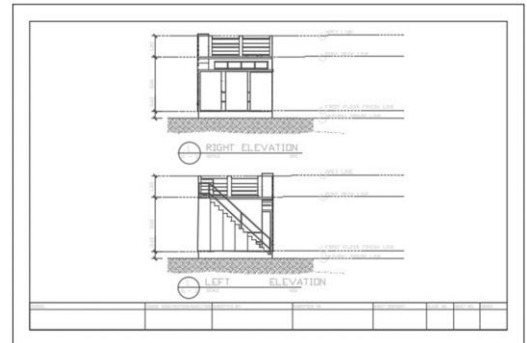
Aside from the provisional budget allocated by the University for extension services, the school shall find ways to outsource fund and resources to achieve its extension service initiatives. Outsourcing includes funding, manpower, materials, skills and knowledge and technology transfer.

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Working Design for Barangay Hall

The School of Architecture, Industrial Design, and Built Environment (ARIDBE) was requested to design a barangay hall on top of an estero in Barangay 869 Zone 95, Pandacan, Manila. Project involves the preparation of architectural construction drawings based on the design prepared last year by the school's faculty. Drawings include floor plans and elevations which will serve as bases in constructing the actual structure of the barangay hall.

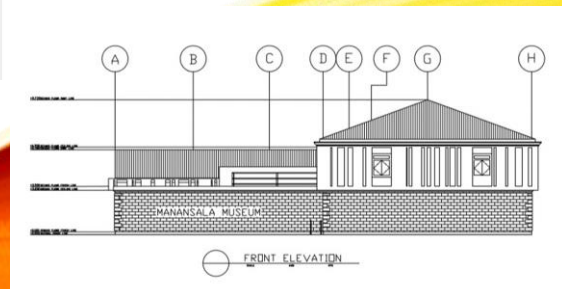
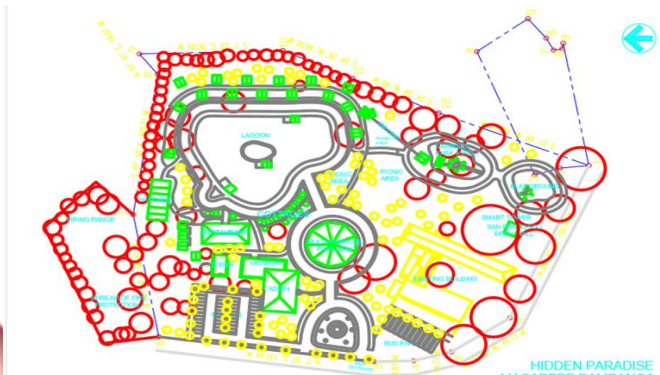


Architectural Drawings for Macabebe Hidden Paradise

Project involves the creation of the master plan and various structures within the site of the proposed Hidden Paradise Resort in Macabebe, Pampanga. Preliminary designs of the resort's buildings were assigned to several faculty architects of ARIDBE.

The chosen designs had undergone several revisions to conform to the chosen master plan of Macabebe. Architect Aristeo Garcia handled the revision of the Administration Building. Arch. Mary Geraldine Legaspi handled the revision of the Pavilion which was initially designed by Arch. Carlos Sauco. The working drawings have been computerized and a copy was sent through email to the SOCIP office.

Arch. Ma. Socorro Gacutan discussed the preliminary landscape lighting and small revision of the site development plan she previously designed. Designs of the other structures were resubmitted in computerized form for the engineering design services. The structural plans and sanitary plans for the project were discussed with Mapúa's School of Civil, Environmental, and Geological Engineering and the electrical plans were discussed with the University's School of Electrical, Electronics, and Computer Engineering.



Basic Drawing Seminar for Senior High School Students

The Senior High School students of Mapúa University had a chance to improve their skills in drawing in the School of ARIDBE's Basic Drawing Seminar held last February 23, 2018. Twenty-two (22) students who were planning to take Architecture or any design program participated the seminar.

To analyze the level of drawing abilities of each student, everyone was requested to do a diagnostic plate drawing of their own hand. Faculty members of the School of ARIDBE supervised the students. To analyze the expanse of learning that the attendees were able to achieve, their drawings were recorded before and after the seminar.



Aside from Mr. Maynard Lumhod and Ar. Mary Geraldine Legaspi as seminar speakers, the seminar was facilitated by Ar. Aristeo Garcia, Ar. Ma. Socorro Gacutan, Ar. Felix Resurreccion, Ar. Junar Tablan and Ar. Carlos Saucó.

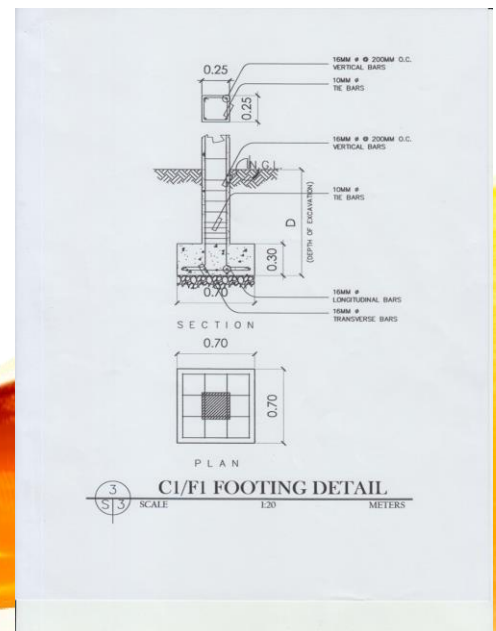
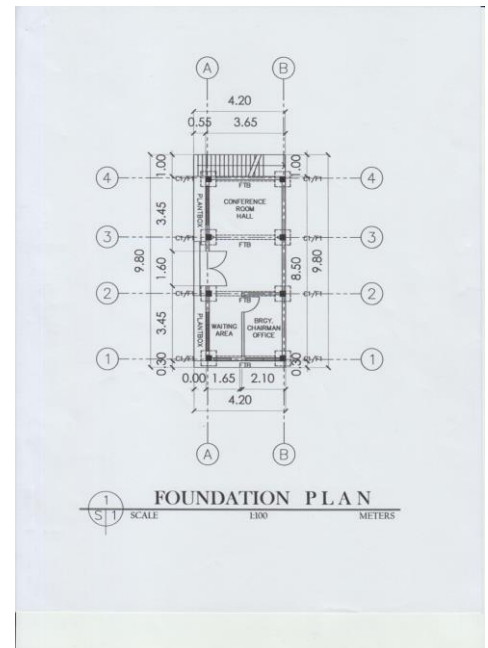
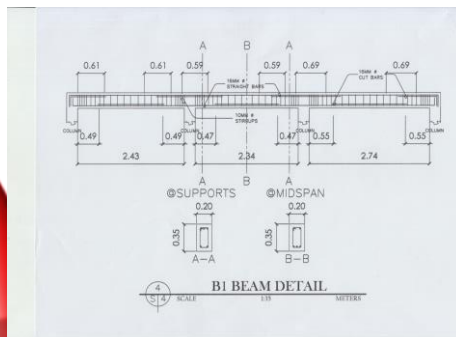


Structural Design and Detailing of Barangay Hall

The School of Civil, Environmental, and Geological Engineering (SCEGE) prepared the structural design and detailing of the barangay hall of Barangay 869 Zone 95 in Pandacan, Manila. The designs were made after the architectural plans and drawings were submitted by the School of ARIDBE.

Work includes the development of structural framing plans. The location of beams and columns were identified based from the given architectural plans. The load distribution and analysis were also done. The dead loads and superimposed dead loads were computed. The thickness of the slab was determined along with the stress analysis. It was then followed by the designing of the hall's structural elements. The sizes of the beams and columns were computed. The number of reinforcing bars were also identified.

The footing was then designed. Its sizes and thickness were computed. The design was based from an assumed soil bearing capacity. The final output was then summarized and expressed through autocad drawings.



Gawad Kalinga House Build Program

The School of Civil, Environmental, and Geological Engineering (SCEGE) participated in various activities of Gawad Kalinga in several locations in Quezon City for the year 2018. Students and faculty members of the School of CEGE participated Gawad Kalinga's house build projects. Activities involved hauling of gravel and soil, hauling of materials, and sieving and clearing of activity areas.

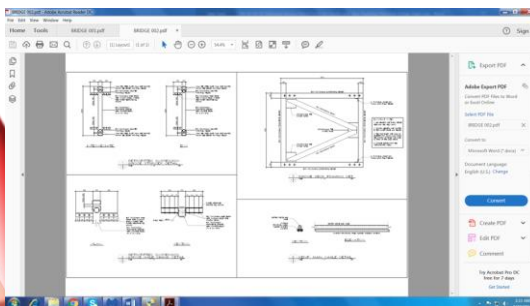
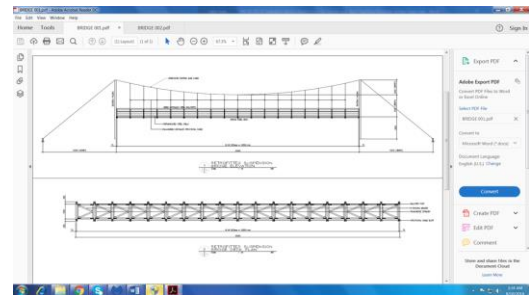


Structural Analysis and Design of Suspension Bridge

With the initiative to address concerns on Infrastructure, Mapúa University collaborated with JCI Manila, a premiere development organization that delves into a wide array of projects such as community development, to come up with a structural analysis and design of a suspension bridge for a project in Iligan City.

The project requires a plan for a 32-meter suspension bridge that is able to support mode of transportations like tricycles and motorcycles. At present, the bridge is made of wooden planks and is no longer durable to hold heavy loads.

The School of Civil, Environmental and Geological Engineering was requested to make a plan for the said project. With the help of its faculty member who specializes on bridge engineering, a plan was prepared and submitted to JCI Manila.



Water Quality Evaluation of Brgy. 830 in Pandacan, Manila

To support the initiative on Health and Environment, Mapúa University through its School of Chemical, Biological, and Materials Engineering and Sciences (CBMES) conducted a water testing in selected barangays of Pandacan, Manila to ensure the potability of water being supplied to the households within the vicinities.

At present, the areas covered have three main source of drinking water namely, water stations, faucet with filter, and tap water provided by Maynilad.

Manned by a pool of faculty members of CBMES, an initial visit of the area and interview of the residents were conducted to serve as baseline information for the water testing. The survey was answered by 41 respondents.

Second phase of the activity is the actual water sampling which is to be set by CBMES.



Python Programming for the Senior High School Students of C.M. Recto High School

Selected Senior High School students from Claro M. Recto Senior High School attended the seminar-training on Python Programming initiated by the School of Electrical, Electronics and Communications Engineering.

The 1-day activity which was held last March 9, 2018 was facilitated by the faculty members of the said school. Topics of the discussion involved Fundamentals of Python, Introduction to Raspberry Pi and Python Gui Programming in Raspberry Pi. Students were also given the chance to do hands-on activities to strengthen the mastery through actual experience. Written examination was also given to check the level of learning of the participants after the activity.



The photo shows Dean Ballado giving his welcome message to the participants



Participants attentively listening to the lecture



EECE Exit Exam Review Program for Mapuans

Students of Mapua University were given review sessions of the courses involved in the Communication Systems Exit Examination (ECE125X) to help them recall important topics from the courses included in the examination. The review session is held every 8th-9th week of the term while the examination is scheduled on the 10th week of the term.



Engr. Flordeliza Valiente started the review with a mock exam about Transmission Media



Engr. Jaye Balbin gives insights to students for the topic on Microwave Communications



Basic Welding Seminar

The School of MME conducted a seminar on basic welding dubbed as “Welding Seminar, Workshop, and Project – Metal Ladder”. The activity was held on March 10 and 17, 2018 at Mapúa University, Intramuros, Manila.

With the aim to teach the basic principles of shielded metal arc welding, lectures and hands-on applications were provided by the faculty of MME. Non-teaching personnel were also tapped to assist in the hands-on application.

Topics covered during the seminar were Basic Arc Welding on its general concept, basic terminologies in Arc Welding, Safety in Welding and several methods/techniques in welding and characteristics of good and acceptable welds.



Engr. Ang explains the basics of welding and safety in welding

Mr. Nicdao (in red shirt), a laboratory technician, explains how to do metal cutting



A participant doing a hands-on on surface grinding



The photo shows the participants of Basic Welding Seminar together with the faculty members of the School of MME

Photoshop Training for the Students of Pandacan, Manila

The School of Media Studies held a free one-day training program in the basics of Photoshop specifically catering to selected pupils and students of Pandacan, Manila. The activity was held on March 11, 2018 at Mapúa University, Intramuros, Manila.

Participants were taught the fundamentals of Photoshop: tools in the toolbar, palettes on the right side of the screen, and the menus. Basic image adjustments were also taught such as cropping, resizing, rotating and undoing changes.

The training was specifically geared for beginners in Photoshop application to utilize the application in their school assignments and school activities including personal design activities.



SMS faculty assists the kids in doing their presentation



Faculty facilitators of the training. From left to right: Prof. Chavez, Prof. Begaso, Prof. Caneo and Prof. Gascon



The attendees of the Photoshop training together with the SMS faculty



Extension Service Coordinator of School of Multimedia Studies, Mr. John Xavier Chavez welcomes the participants of the training

Facebook Fan Page Making and Weebly Website Development

The School of Information Technology organized a one-day seminar entitled **“Smart Page for Community Linkages and Development – Facebook Fan Page Making and Weebly Website Development”** last March 13, 2018 at Mapua University-Makati Campus.

The program is designed to address the need of the community in creation of social media account for the benefit of the citizens of the different barangays in Pandacan Manila. Twenty (20) barangay officials participated in the activity.

The level of training given to the participants was determined based on their skills and knowledge in using the computer.

Hands-on activity was done at the end of each lecture. The topics discussed include history of Facebook and social media, different features of Facebook and Weebly, the tools to be used in creating blog post and feature contents of the sites.



A SOIT faculty member discussing topics about social media sites



The photos show participants are being guided by a faculty member and a student during the seminar



Enhancement Program for ALEAP Learners

Alternative Learning Equivalency and Accreditation Program (ALEAP) is a non-formal education program of Mapúa University that is designed to give equal opportunities to junior high school students that can't afford to enroll in formal school. The program is offered by the University since 2004.

To enhance the skills of the ALEAP students in their English and Filipino subjects, the School of SSSE is working in giving the students good quality lectures in these subjects. Every term, the SSSE is assigning faculty members to give lectures on specific topics on English, Filipino and Social Science subjects. The topics are aligned to the curriculum of DepEd for Non-Formal Education.



The photos show faculty members of SSSE giving lectures on English and Filipino subjects to ALEAP learners

Seminars for Barangay Officials of Pandacan, Manila

The School of Social Sciences and Education offered various seminars for the barangay officials of Pandacan, Manila on different dates for the year 2018. The seminars intend to enhance the knowledge of the officials on topics related to their interest as Barangay leaders.

On January 20, 2018, the SSSE held an activity entitled "Workshop on Barangay Resolutions and Other Best Practices". The program was attended by 14 barangays from Pandacan and Intramuros, Manila. It aimed to teach the barangay officials the basics of writing resolutions and ordinances.

Seminar on RA10645: Mandatory PhilHealth Coverage for Senior Citizens was offered on January 27, 2018 to provide the implementing guidelines and procedures for the coverage and entitlement of all senior citizens not currently covered under the National Health Insurance Program (NHIP).

The activity "Seminar in Assessing One's Personality" was held on February 17, 2018. It was attended by 11 barangay officials from Pandacan, Manila. The activity aimed to teach the barangay officials on how to assess one's personality which can be a great tool in helping them in arbitration and mediation.

At present, the SSSE continues to give necessary seminars and workshops for the barangay officials of Pandacan, Manila.



Seminar on RA10645: Mandatory Senior Citizens/PhilHealth last January 27, 2018



Workshop on Barangay Resolution last January 20, 2018

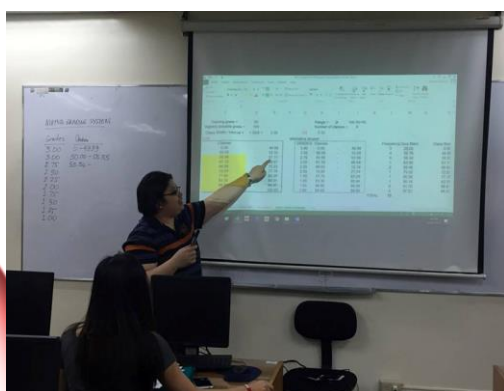


Seminar in Assessing One's Personality last February 17, 2018

IE Exit Exam Review Program for Mapuans

The School of IE-EMG offers review program for IE students who are taking up IE Exit Exams. The program aims to assist the students in identifying the areas of difficulties encountered by the students that hinder them to pass the exam. This also serves as avenue for the students to review their past lessons in Industrial Engineering.

The review program is facilitated by the faculty members of the School of IE-EMG.



The photos show IE faculty members giving lectures and pointers on IE subjects included in the Exit Exam

Study on Systems Improvement on the Services of Barangay 836 Zone 91, Pandacan, Manila

As part of the extension service initiatives of the SOCIP Office which is focused on Research-Based Extension Service, the School of IE-EMG made a study on the Systems Improvement on the Services of Barangay 836 zone 91, Pandacan, Manila. The study was done from January to March 2018.

The output of the project is a presentation of the means where the barangay can improve their services for its constituents. The study covered two main components which are (a) services offered by the Office of the Barangay Chairman and; (b) use of the Material Recovery Facility (MRF).



The photo shows the group of IE faculty members and students involved in the study



Consultation meeting with the Secretary of Barangay 836



Consultation meeting with the Chairman of Barangay 836

Math Exit Exam Review Program for Mapuans

To assist the Mapuans in their Math Exit Exams, the Department of Mathematics continue to offer a quarterly Math review program to interested students who wish to enhance their skills in solving mathematical and verbal problems. Through the program, the students would have better chance of passing the exam which is a pre-requisite to higher course.

The review program covers topics such as Algebra, Trigonometry, Analytic Geometry, Solid Mensuration and Calculus.

The schedule of the review classes are posted as announcement in the Mapua website and other strategic areas of the school.



Math faculty members administer the review sessions

Math Enhancement Program for ALEAP Learners

The Department of Mathematics continues its services on rendering Math enhancement program for the ALEAP learners of Mapua. The program is designed to teach basic Mathematical skills to the learners registered under the Alternative Learning Equivalency and Accreditation Program of Mapúa University. The program is in preparation for the national examination of the DepEd.

Faculty members of Math are assigned every term to discuss topics specified on the curriculum of DepEd on Non-Formal Education.

Pre-tests and post-test are given every session to evaluate the learnings of the students .



Faculty members of Math Department giving lectures on Mathematics

physics



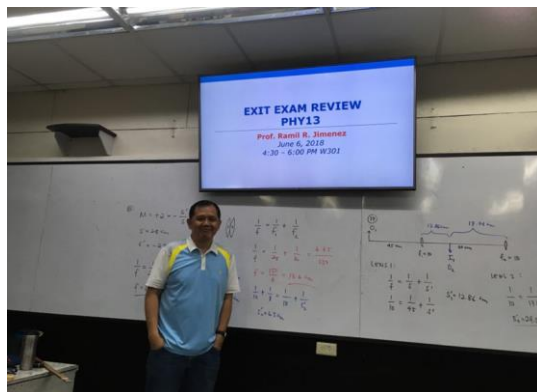
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Physics Exit Exam Review Program

To support the students of Mapúa University in passing their Physics Exit Exams, the Department of Physics continues its extension service on rendering Physics Exit Exam review program quarterly. It aims to refresh the knowledge and understanding of the students on the different Physics concepts and help them to solve Physics problems clearly.

Quarterly, the department assigns faculty members to teach topics on Physics under their specialization.



Faculty members of Physics Department giving lectures to the students of Mapúa

Street Crisis Management for St. Theresa's College

The Department of PE and Athletics held a seminar on Street Crisis Management for the students, teachers and administration staff of St. Theresa's College in Quezon City. The activity was held on October 19, 2018 at St. Theresa's College, Quezon City.

With the aim to teach basic self-defense, the participants were taught the basics of parrying and escaping techniques, ground pinning and arresting techniques and disarming techniques.



Group picture of the participants and the faculty members of Mapua PE Department



Application of the self-defense techniques

Street Crisis Management: Unarmed Combat

With the widespread incidences of street crimes in Metro Manila, it is considered necessary nowadays for everyone to learn the basics of self-defense especially those whose jobs are primarily about safety and security.

Because of this, the Department of PE and Athletics conducted an activity on self-defense entitled Street Crisis Management: Unarmed Combat last February 11, 2018 at Mapua University, Intramuros, Manila. The activity was attended by the security personnel from Mapua University and barangay tanods from Pandacan and Intramuros, Manila.

The attendees were given lectures and hands-on application of the different self-defense techniques. Topics included the basics of parrying and escaping techniques, ground pinning and arresting techniques and disarming techniques.



Application of the self-defense techniques



Group picture of the organizers and attendees of the activity

Blood Donation Program

To give its support in addressing SDG#3: Good Health and Well-being, Mapúa University through its Social Orientation and Community Involvement Programs (SOCIP) Office continues its effort in holding Blood Donation Programs to help people who are in dire need of blood.

Yearly, the blood donation is being held twice in Intramuros campus and once in Makati campus. Students, faculty members and non-teaching personnel volunteers come together to make the program successful.

The blood donation is a tie-up activity with Jose Reyes Memorial Medical Center (JRRMMC).

For the year 2018, a total of 46,500cc of blood bags were collected from 93 qualified people.



Successful blood donors from the area of the students and non-teaching personnel



Marawi Relief Distribution

In 2017, Marawi City was attacked by the terrorist group Maute when the military forces tried to arrest top Islamic State of Iraq and the Levant (ISIL) Isnilon Hapilon. The bloody war between the government and the Maute group ended in the destruction of homes and lives of the thousands of people of Marawi City.

With the hope to give assistance to the people of Marawi, a year after the bloody war happened, Mapúa University through the SOCIP Office conducted a Relief Goods Distribution in Marawi City in September 26-29, 2018. Together with the Philippine Army, 1,000 packs of relief goods were distributed to selected residents of Marawi City, Lanao del Sur; Wawalayan, Lanao del Sur; Barangay Padas, Pagayawan; Bahay Pag Asa II, Mipaga; Bahay Pag Asa I, Buadi Itowa.



Photos of beneficiaries



The photos show the Mapúa team being assisted by the Philippine Army during the relief distribution in Marawi City

Project Proposal Workshop and Conference for Community Leaders

The Mapúa University through its Office for Social Orientation and Community Involvement Programs (SOCIP) Office held again its yearly event for the community leaders of Pandacan, Manila. The event was hosted by the council of Chairman Remedios Uy of Barangay 834 Zone 91, Pandacan, Manila.

With the theme “Solidarity through Diversity”, the 11th Community Conference was held on November 23, 2018 at One Tagaytay Place in Tagaytay City. It was attended by 88 Barangay Officials from Pandacan and Intramuros, Manila.

The event focused on developing a project proposal which is aligned to UN's Sustainable Development Goals. The workshop aims to enhance the knowledge of the barangay officials on how to make a better project proposal for their respective community.

An open forum gave way for the community leaders to clarify concerns regarding their programs and projects being implemented by Mapua to the barangays.

A MOA signing with the newly elected barangay officials was done before the activity concluded. Eleven (11) new barangay Chairmen signed the MOA to re-establish the linkage between Mapua and the community.



Discussion of the project proposal and SDGs



Open Forum



MOA signing with the newly elected barangay officials

Dumagat Project: Gift Giving

In light to the spirit of giving, the Mapúa University through the Office for Social Orientation and Community Involvement Programs (SOCIP) conducted a Gift Giving activity last December 17, 2019 at Barangay San Andres, Tanay, Rizal.

A total of 100 families benefitted from the gift giving. The goods given were solicited during the Christmas giving of Mapúa.



Gift packs donated by Mapúa



Engr. Agas of Mapúa orients the beneficiaries of the gift giving



Checking of the list of beneficiaries



Distribution of relief goods to selected beneficiaries

students

How To Start a Business through Livelihood Activities

The students of PROMAP-Mapua aims to give knowledge to the Brgy. 867 Zone 95 in Pandacan, Manila through a lecture seminar on how to start a small business through livelihood activities.

Through the help of its adviser, Prof. Marvin Norona, the community was given a lecture on the principles of business making including tips on how to make the business sustainable. The lecture also emphasized on giving the consumer a sense of “sulit” feeling with the product that they paid for.



PROMAP Adviser discussing his lecture on business making



The officers demonstrating on how to cook chicken feet Adobo

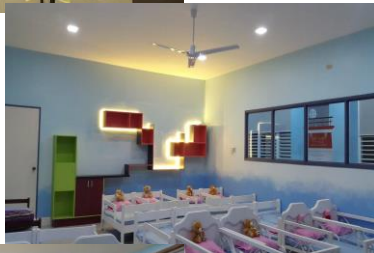


Giving free taste of chicken feet Adobo

students

Jumpstart: Space for Little Explorers

A group of Industrial Design students of the School of ARIDBE conducted an outreach activity entitled "Jumpstart: Space for Little Explorers" for the orphanage of Hospicio de San Jose in San Miguel, Manila. The activity started on the 2nd Quarter of School Year 2017-2018 in which a team of 15 students refurbished and renovated the orphanage center for toddlers which after the activity, provided a space that would help develop the children's creativity and independence through playing and learning.



Pictures of the toddler's area after the renovation



Pictures of the toddler's area before the renovation

students

Interactive Tutorial

The members of the Honor Society of Mapua conducted an outreach activity at Barangay 866, Pandacan, Manila last November 4, 2018. The activity aims to help the children in the barangay on how to improve their skills on basic Mathematics and English subjects as well as instill good study habits and moral behavior.

The activity was participated by thirty (30) children who are in Grade 1 to 4 level. Children were very participative during activity. Aside from teaching basic Mathematical and English skills, children were also given drawing materials to enhance them to showcase their creativity and talent in arts.

At the end of the activity, participants were given each a learning kit that they can use in school.



Members of HSM together with adviser Prof. Dimaunahan teaching basic Mathematics to children



Kids listening attentively to the topics being discussed by HSM



Getting to know each child by letting them introduce themselves



Letting the kids show their artistic side by making their "I want to be a _____" drawing

students

Ma-botanical Garden

The NSTP students from a merged class of Mapua Intramuros and Mapua Makati had a project implementation which focused on planting herbal and different kinds of plants in the adopted communities of Pandacan, Manila.

As part of the initiative of the University in promoting a clean and green environment, the students of Mapua-NSTP planted assorted kind of plants in their assigned barangay in Pandacan, Manila. Students were assisted by the community officials and representatives of the barangay. Together, they worked hand-in-hand to beautify the community.



Students together with the community officials work hand-in-hand to a clean and green Pandacan

students

Katawan ay Pangalagaan, Lamok ay Labanan, Para sa Dengue at Leptospirosis ay Maiwasan!

Students from the NSTP class of facilitator Mr. Kevin Diaz had a project at Barangay 872 in Pandacan, Manila. The project aims to educate the children on the importance of hygiene and ways to prevent dengue and leptospirosis.

Awareness lecture and discussion on how to detect, treat, and prevent diseases through personal hygiene and community initiatives were discussed to the kids.



NSTP students giving lecture to the kids of Barangay 872, Pandacan, Manila





Office for Social Orientation and Community Involvement Programs (SOCIP)
Headquarters, NSTP and the Mapúa-ROTC Unit (Mapúa-NSTP)
Mapua National Service Reserve Corps School Directorate Office (Mapúa-NSRCSO)

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