

RADIANCE JOURNAL

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MAPÚA
UNIVERSITY

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RADIANCE 2017

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.

Table of Contents

School of Civil, Environmental and Geological Engineering	2-4
School of Chemical Engineering and Chemistry	5-6
School of Electrical, Electronics and Computer Engineering	7-9
ET Yunchengco School of Business and Management	10-11
School of Manufacturing and Mechanical Engineering	12-14
School of Multimedia and Visual Arts	15-16
Department of PE and Athletics	17-19
Department of Physics	20-21
School of Information Technology	22-23
Department of Mathematics	24-26
School of Architecture, Industrial Design and the Built Environment	27-29
School of Languages, Humanities and Social Sciences	30-31
School of Industrial Engineering and Engineering Management	32-33
Institutional	34-38
Students	39-43

School of Civil, Environmental and Geological Engineering



The School of Civil, Environmental, and Geological Engineering continues its build projects by helping Gawad Kalinga, a non-government organization, in its several housing sites in Metro Manila. The activities were conducted on different dates for the year 2017. The activities were joint efforts with some of the students of SCEGE.

Activities involved during the visits were hauling of hollow blocks to the construction site, sieving and painting of houses.





The School of Civil, Environmental and Geological Engineering together with the student members of the Philippine Society of Sanitary Engineers – Mapua Student Chapter and the CEGE Thinkers organized a Tree Planting Activity at the La Mesa Dam Eco Park in Quezon City.



The activity was initiated to promote social awareness, sense of responsibility, and volunteerism for the protection and conservation of the environment.

School of Chemical Engineering and Chemistry



The School of Chemical Engineering and Chemistry held a series of seminar/workshops on the Preparation of Perfume, Cologne, Dishwashing Liquid, Fabric Conditioner and Multi-Purpose Cleaner for the residents of Mapua's adopted communities. The seminars were held at one of the laboratory rooms of Mapúa University last March 2017.

The activities aim to give the participants an alternative source of income which can help them support their financial needs.

Handouts enumerating the materials needed, procedures and sample costing were provided to the participants after the activity.



School of Electrical, Electronics and Computer Engineering



The School of Electrical, Electronics and Computer Engineering held an Android Mobile App Development using Phyton Extension to the senior high school students of Claro M. Recto High School. The activity was held at Mapua University last March 2017.



Each session was handled by different faculty groups to teach different topics to students. Topics discussed were Arrays and Functions, Graphical User Interface (GUI) using Python as well as using the software PyQt, Introduction to SPYDER (Python-IDE), Data types, Operators, Expressions, Decision statements and Loops.



The School of Electrical, Electronics and Computer Engineering held an Electronics Exit Review Program for the students of Mapua University as part of its effort to assist the students in their exit exam.

The review program covered the topics on Operational Amplifiers, Comparators, Summing amplifiers, integrators and differentiators, Instrumentation amplifiers OTA, Oscillators, Regulators, Solid state devices (SCR, triacs, UJT, diacs), Input devices (sensors), Output devices (valves, relays, contactors), Industrial logic circuits and PLC. It was held on January 2017.

ET Yuchengco School of Business and Management



A livelihood seminar on Butchi Making was conducted at Barangay 872, Pandacan, Manila last February 2017.

The faculty members of the ET Yuchengco School of Business and Management described the activity as a livelihood opportunity in order for the residents to earn money through means of establishing a small business. Part of the activity also was a short lecture on how to manage a home-based business.

After the activity, the participants were given handouts.



School of Manufacturing and Mechanical Engineering



The School of Mechanical and Manufacturing Engineering conducted a Basic Welding seminar last February 2017. It was attended by the residents from Mapua's adopted communities in Pandacan, Manila.



The activity was held in two sessions to cover the lecture and the hands-on application.

The lecture activity covered the discussion of basic arc welding on its general concept, basic terminologies in Arc Welding, Safety in Welding activities, several methods/techniques in welding and characteristics of good and acceptable welds.



The School of Mechanical and Manufacturing Engineering went to Hospicio De San Jose together with the student members of the American Society of Mechanical Engineers last February 2017. The activity aimed to assess the safety of the playground, and provide an appropriate recommendation for the hazard. The group also took the opportunity to discuss the relevance and significance of Science, Technology, Engineering and Mathematics to the daily life.

After the activity, the Mapúans had a short interaction with the kids of Hospicio by playing games, singing and dancing with them.



School of Multimedia and Visual Arts



The School of Multimedia and Visual Arts conducted a research-based project which involved the creation of a narrative documentary and marketing collaterals for Pandacan, Manila that will promote its cultural, artistic and historical heritage.



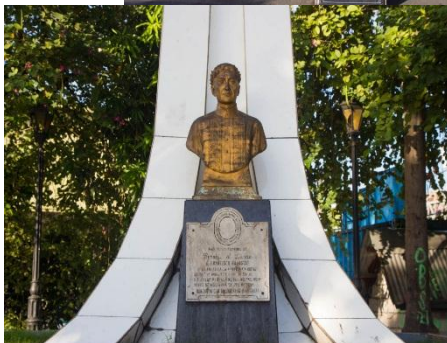
The following are the objectives of the research-based study:



1. To create a documentary and marketing collaterals to communicate the artistic, historical and cultural significance of Pandacan, Manila.

2. To integrate Cultural Studies and Perception Theory in the process of creating the documentary and collaterals.

3. To use Structuralism and Semiology of Film Theory to communicate the message of the documentary and collaterals.



Department of PE and Athletics



Last March 25, 2017, the PE and Athletics Dept. in cooperation with coach Randy Alcantara and some Mapúa Cardinals basketball players conducted an extension service activity entitled “Basketball Clinic” at Bgy. 859 Zone 93 in Pandacan Manila.

The said activity aimed to impart knowledge on basic basketball skills like dribbling, shooting and defensive stance.

The kids were so grateful and thankful to Mapúa for teaching them basic basketball skills.





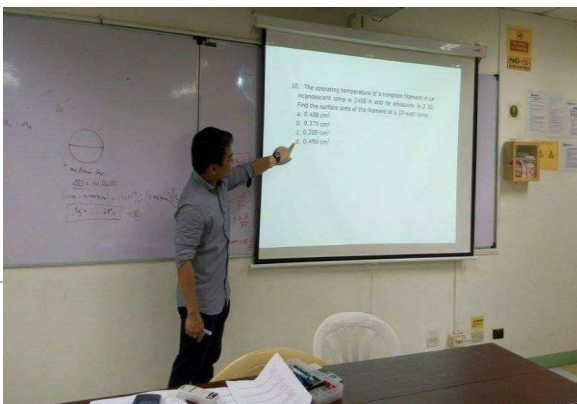
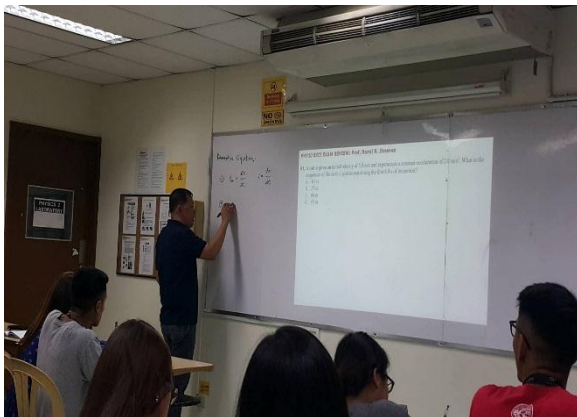
The PE and Athletics Department conducted an extension service activity entitled “Street Crisis Management: Women Empowered” on November 11, 2017 at St. Theresa’s College in Quezon City. It was attended by the faculty members and staff of the said school.



The activity aimed to teach the participants basic self defense and some techniques on how to get free when tied using a duct tape or a zip tie on a kidnap or hostage situation.



Department of Physics



The Department of Physics conducted a series of Physics Exit Review Program for the year 2017 for the students Mapúa University. The activity aimed to guide the students on the topics that they need to review in a particular physics course and somehow help them make a recall on the different physics concepts and improve their understanding by applying the said concepts in solving problems. The faculty involved consolidated the topics covered in their chosen physics course, also prepared the review materials and conducted the review class.



School of Information Technology

Selected faculty members from the School of Information Technology taught the advance topics of Microsoft Excel and PowerPoint to chosen students and teachers of Claro M. Recto High School. The training was conducted for two (2) Saturdays of March 2017.

The participants from the mentioned high school also attended the fundamental course of MS Office last year of November before they can pursue on the next level of computer fundamental short term course (CFSTC). Advance topic of MS Excel was offered for those who already know the basic use of the spreadsheet which consists of using formula like VLookUp, conditional formatting, CountIf, and other useful functions like Freeze Panes and standard deviations.

Participants who attended the topics on Basic Excel had a discussion on solving system of equations, visualization and effective class exercises. For the Power Point discussion, topics discussion focused on advance animation and transition.

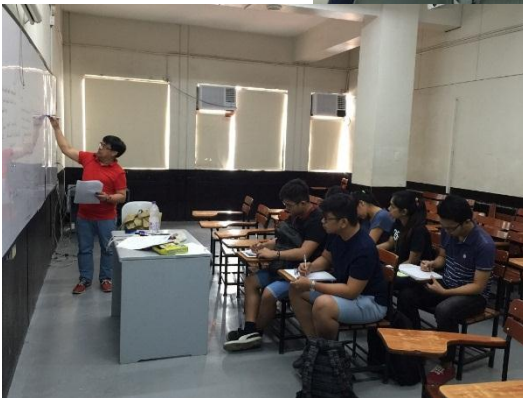
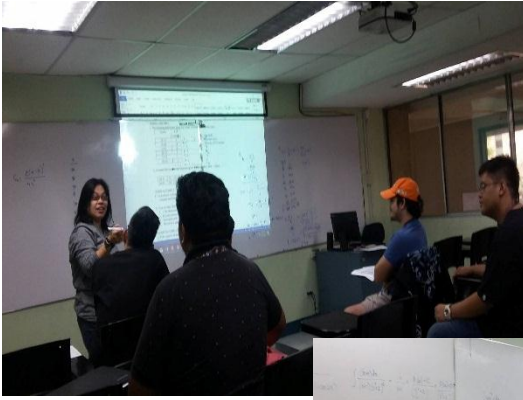


Department of Mathematics



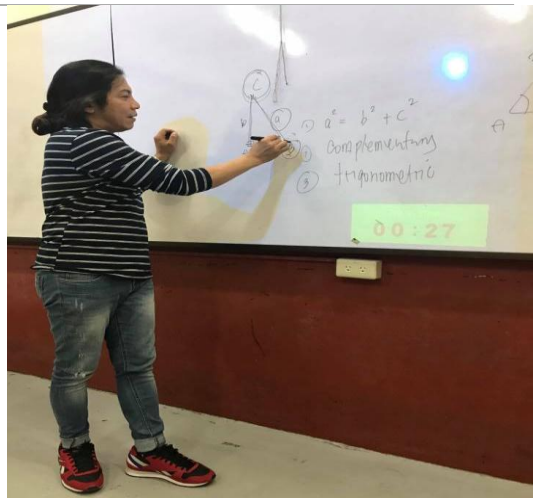
The Department of Mathematics continued its review program for the students of Mapua's Alternative Learning Equivalency and Accreditation Program (ALEAP). The activity aimed to assist the learners in enhancing their mathematical skills to help them pass the national examination.

The program was conducted in coordination with the Office for Social Orientation and Community Involvement Programs (SOCIP).



The Department of Mathematics continued to strengthen its initiative to assist the students of Mapúa University in passing their Math Exit Exams.

For 2017, the department held its series of Math review programs for subjects Math 23X and Math23X-1. Topics covered were different math courses such as Algebra, Trigonometry, Analytic Geometry, Solid Mensuration, and Calculus.



School of Architecture, Industrial Engineering and the Built Environment



The School of AR-ID is currently assisting the Municipality of Macabebe, Pampanga in the design of its proposed "Macabebe Hidden Paradise".



Mayor Annette Balgan requested Mapua for the designs of the buildings that will be included in the site development plan of Macabebe Hidden Paradise.



Through the efforts of the faculty members and students of Mapua, several designs were provided to Macabebe for their final approval.

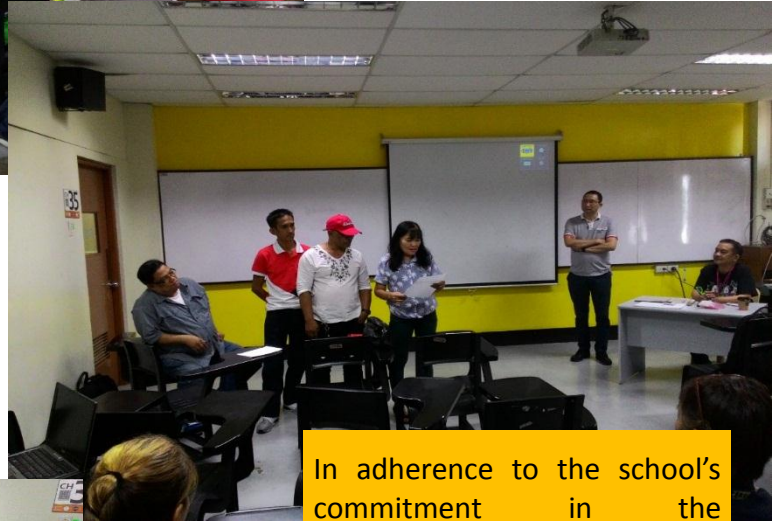




The School of AR-ID-BE was requested to make a design for the barangay center of Barangay 869 in Pandacan, Manila last February 2017.

Faculty members and some students went to the area for an ocular inspection. Following site inspection, the team proceeded with the preparation of the design of the Barangay Center in accordance with the requirements discussed during the meeting. The team prepared two schemes.

School of Languages, Humanities and Social Sciences



In adherence to the school's commitment in the propagation of an extension culture of caring, sharing and empowering, a barangay seminar-workshop was conducted by selected competent faculty members of the School of Languages, Humanities and Social Sciences (SLHS). This time, the extension activity is aligned to a paramount goal shared among developed and developing nations – Sustainable Development Goals (SDGs) espoused by the United Nations, which must be cascaded to the local community level -- the barangay, in particular.

School of Industrial Engineering and Engineering Management





The School of IE-EMG continued its effort in conducting research-based projects for Mapua's adopted communities.

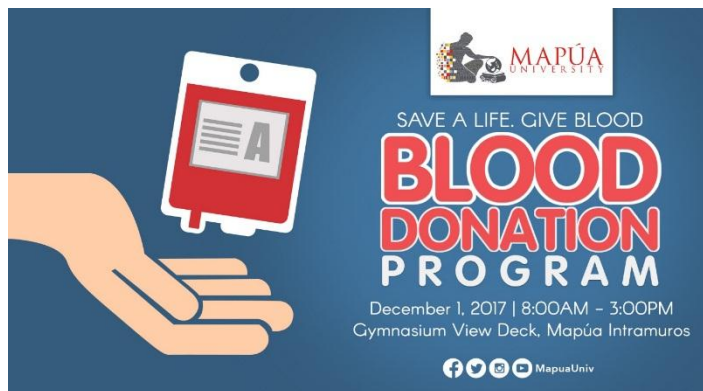
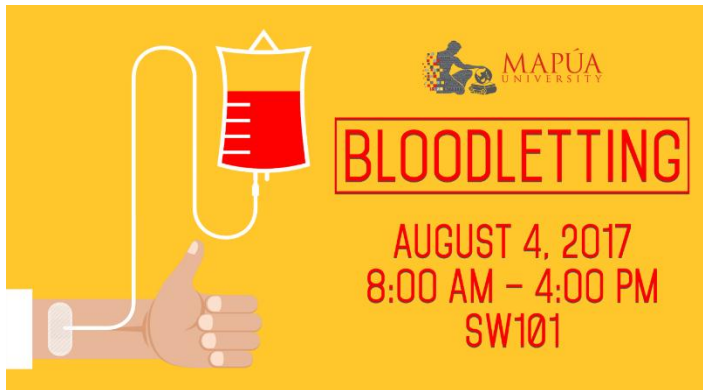


Last February-March of 2017, the School of IE-EMG conducted a research project entitled "COMPOSTING: A Multi-Faceted Assessment of Transforming a Barangay-Level Activity into a Sustainable Livelihood Project" for the barangay of Chairman Lorena Engracial at Barangay 872, Pandacan, Manila.



The research focused on the garbage collection, disposal and composting activities of the barangay. At the end of the research, the school shall provide a recommendation on a barangay-wide implementation plan for a sustainable livelihood program on composting.

Institutional Activities



For the past years, Mapua University has been actively involved in Blood Donation Program which is a tie-up project with Jose Reyes Memorial Medical Center.

Three blood donation activities were conducted for the year 2017 in both Mapua Intramuros and Makati campuses. YGC's House of Investment also participated last October 2017 in Makati campus.





In support to the government's effort to strengthen the facilities of its Mega Drug Abuse Treatment and Rehabilitation Center (DATRC), the Mapua University through its SOCIP Office donated assorted goods and supplies last March 2017 to DATRC.

Hygiene supplies, shirts, tables and chairs were distributed to DATRC.

The donation was graced by the Assistant Secretary Aurora Ignacio of the Office of the Special Assistant to the President and DILG Undersecretary John R. Castriciones.





The English Camp is a yearly activity that the ELC, together with CCS and SLHS, facilitates for students from CYCU. For 2017, five students took part in the program.

The aim of the English Camp is to provide opportunities for participants to learn and use the English language in meaningful contexts. Various learning activities were designed toward the achievement of the goal.

Students' activities consisted of attending lectures, immersing in SLHS and engineering classes, joining organization activities, and participating in team building activities and cultural trips.





On November 24, 2017, the Mapua University through its SOCIP Office, held the 10th Community Conference with the theme “Unity in Diversity” at One Tagaytay Place in Tagaytay City. The activity was hosted by the council of Chairman Emilia Enriquez of Barangay 833 Zone 91, Pandacan, Manila.

The community conference is a yearly activity of Mapua-SOCIP that aims to build stronger linkage with the community on the area of outreach programs of Mapua. For 2017, Mapua focused on giving insights and guided the barangay participants on how to make a project proposal for the community. Guidelines were given by Mapua to properly address issues concerning their barangays.

For 2017, the ComCon activities consisted of teaching the community on how to prepare a project proposal and teaching the community about the bandaging techniques for first aid.

The activity ended with the symbolic Christmas Tree lighting. Each chairman was given a star where they can write their pledge of support to Mapua. The stars were placed in the Christmas Tree.



Students



Members of the student organization, Honor Society of Mapua (HSM) held an outreach activity entitled "Interactive Tutorial" for the kids of Barangay 657 in Intramuros, Manila last January 2017.



The HSM members taught the children basic mathematical skills that can help them improve their knowledge on certain mathematical problems. HSM also took the opportunity to promote the importance of good study habits and the importance of good moral behavior to the kids.



The class of CWTS02 M-01 handled by Kevin D. Diaz, RN conducted a Basic First-Aid under Disaster Preparedness Training for the children of Pandacan, Manila. The activity aims to use the youth to provide prompt and effective basic care in order to minimize morbidity and mortality in disaster situation. Children ages 7 to 12 years old participated in the project implementation.





Greening the environment by planting different kinds of plants in the different areas of Pandacan, Manila is one of the top priorities of Mapua. Students were deployed to the barangays to help in the greening project. Student activities involve transferring of soil and plants to the pots and improving the botanical garden of the barangay.



The CWTS02 students from sections B1 and M-01 conducted an educational project, The Little Einstein's – A Science Experiment for youth guided by their facilitator, Kevin D. Diaz. These experiments are a fun way to introduce children of all ages to basic scientific concepts. Critical thinking skills are enhanced during such activities. And with these experiments, children can ask the why, how and what questions.



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