



RADIANCE 2014

The Official Magazine of SOCIP

INTRODUCTION:

In line with the Institute's Mission which is to disseminate, generate, preserve and apply scientific, engineering, architecture and IT knowledge and part of its Vision to not only impart expertise but also inculcate ethics, the Mapua Institute of Technology through the Social Orientation and Community Involvement Program (SOCIP) Office developed a structure to optimized engineering, health and IT expertise for the benefit of the community. The structure was aimed to guide the Institute to develop and plan programs to harness engineering, health and IT expertise of the Institute's faculty, non-teaching personnel, administration and students in order to offer free extension service that shall affect change in the community.

The Institute's program on extension services allows the Mapua community to build social relationships to different sectors of the society, comprising the academe, industries, barangays, parishes, GOs and NGOs. Exposure to said sectors allows the faculty, non teaching personnel and students gain social learning experiences making them aware, informed and become responsive to the needs of the community.

OBJECTIVES:

To render free extension services to the community through institutionalized collaboration participated by the faculty, non-teaching personnel, administration and students.

SUMMARY:

The faculty, non-teaching personnel and students of the different schools and departments guided by the extension service structure of the Institute had rendered their fields of expertise to Mapua's adopted communities. Programs of these schools and departments were integrated to optimize the delivery of extension services.

The needs of Mapua's adopted public schools in terms of teacher and students training, seminars and workshops were catered by the school of basic studies. Likewise, the needs for trainings and seminars in terms of public service of the barangay officials from Pandacan, Manila were addressed.

The schools of engineering provided respective field of expertise to the community. The school participated in the construction of low cost houses such as Habitat for Humanity and Gawad Kalinga. Livelihood projects like perfume making and soap making were also conducted to help our beneficiaries to start up a small business.

The Alternative Learning Equivalency and Accreditation Program (ALEAP) which caters the out-of-school youths was further strengthened to help our government lessen the percentage of OSYs in the country.

Seminars for Mapua's partner high schools were still continued not only to promote Mapua as their choice for tertiary education but also to help our partner high schools in improving competencies of high school teachers on the key areas of Science and Technology.

Bloodletting Activities were continually conducted to help our less fortunate brothers and sisters on their blood requests.

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School of Architecture, Industrial Design and Built Environment

ARID-BE designs Barangay Hall

3

At the start of the school year 2014-2015, the community involvement program of Mapua Institute of Technology, identified a community in Pandacan Manila that was in need of an architectural design service for their barangay hall. The vision of the said project was to improve the working condition and façade of the facility thru architectural design.

The existing facility was photographed and measured by SOCIP and was endorsed to Arch. Mary Geraldine Legaspi, the AR-ID & BE extension service coordinator. She assigned the project to Arch. Carlos P. Saucó together with his Computer Aided Design and Drafting 4 class.

The photograph was presented to the CADD 4 class of Arch. Carlos P. Saucó for evaluation and design analysis. The initial stage of the design development was to submit a schematic design to the supervising faculty. Upon review of the design, the class was divided into groups and was tasked to develop a 3D-model and rendered image of the proposed project.

Several designs were generated and was submitted to SOCIP for evaluation and presentation to the officials of the community. After the selection process, the design for the proposed barangay hall was concluded (see attached images).

As recommended by the supervising faculty, the approved design may be further be enhanced thru the development of a complete set of construction drawings. Upon completion, it may be utilized as a basis for the budgetary estimate that shall be presented to the community.



ARID-BE designs Day Care Center

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An extension service meeting was held at the start of the term to identify the projects that needs architectural design service within our recipient community in Pandacan, Manila.

Several locations were identified and a black and white photo was provided for each of the proposed project locations.

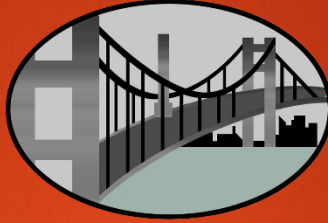
One of which is the Daycare Center in Barangay 834 Zone 91; which was assigned to the group of Ar. Ma. Socorro Gacutan and Ar. Cristina Miraflor who divided the tasks between them.

The first portion of the task is to provide several perspective views to identify the preferred architectural character to be used. Based on the measurements given by the community coordinators; 3 perspective views were sent / submitted to SOCIP.

From these 3 perspective presentation accomplished within the months of July to September; the community coordinator reported to our faculty members the preferred look; from which the architectural working drawings were developed with the help of selected student.

The second part of the project that was accomplished included basic architectural drawings; pending the comments from the barangay; the project is yet to be accomplished and continued to form an entire set of working drawings needed to construct the said project.





School of Civil, Environmental and Geological Engineering

CEGE supports Housing Projects

6

Habitat For Humanity Philippines (HFHP) is a non-profit organization whose objective and competency focus in building and constructing homes for the impoverished and in-need Filipino families. With this ideology, HFHP ties up with different organizations who share the same objectives in promoting and implementing various programs regarding community development. Habitat For Humanity brings and organizes people together, regardless if you are a student, a professional, or just a normal citizen, to help build homes and communities giving everyone a chance to pour in some of their skills and time for this outreach program. Becoming a volunteer in this kind of program and sharing the same vision and mission of this organization is such a heart-warming and joyful experience despite of hours and efforts given up in physical activities rendered.

The group was welcomed in Bistekville I Habitat Site by Site Engineer Romin Clamor. He gave the participating students and faculty members School of Civil, Environmental and Geological Engineering (SCEGE) a brief orientation about what to be expected on the site during our visit. He also added some details about the project they are working on as well as the progress. He said that they planned to have an output of 300 homes before the end of the year. These homes are to be given away on 3 groups of families. The first group comprised of families with Public School teachers, the second are informal settlers and the third are the formal settlers. He mentioned as well that currently, they already constructed 200 homes wherein some of it was already awarded to its beneficiaries. There were also Japanese delegation who were working as volunteers on site. Aside from the details of the project, he also mentioned some safety precautions, instructions, different job assignment scheduled for everyone and some warm up exercises before doing the tasks.



CEGE supports Housing Projects

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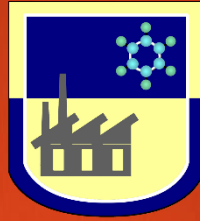
Gawad Kalinga is building empowered communities by people with faith and patriotism; driven by a culture of caring and sharing, dedicated to eradicate poverty and restore human dignity. Being part of the vision of Gawad Kalinga is a life changing experience.

For this term, the students from American Concrete Institute Philippines- Mapua Student Chapter (ACIP-MSC) participated in the GK activity. Together with the adviser of ACIP-MSC, Engr. Gonzales and ever supportive CEGE faculty members, the program became lively and successful. This particular Gawad Kalinga activity was one of a kind since there were other volunteer groups present on that day that mingled and worked with the students and faculty members.

Upon arriving at the GK Village site, Engr. Cruz divided the students on which who will mix the concrete and who will help pass the mixed concrete to the site. Engr. Sabandaja and Engr. Pilonos gave some instructions to students in the proper way of mixing concrete while Engr. Bacero helped in passing mixed concrete to the site.

No problems occurred on the site when the group arrived so the works were faster than expected. After the activities, the group took a short break. The activity ended with a picture with all of the participants and the helpers in the site. The day was concluded with the CEGE Faculty, and ACI Members.





School of Chemical Engineering and Chemistry

ChE-Chm conducts Livelihood Training

9

A group of twelve (14) faculty members of the School of Chemical Engineering and Chemistry, three (3) faculty members of the School of Industrial Engineering and Engineering Management and seven members of PICHE-JCMIT volunteered to conduct two (2) free seminar/workshops entitled "Preparation of Perfume / Cologne" and "Preparation of Papaya Soap" for some residents of Barangay 628, Sta. Mesa, Manila at their Barangay Hall last 26 January 2014, from 9 a.m to 1p.m.

There were twenty (20) residents who participated in the activity. They were briefed on the precautions necessary in handling some of the materials needed. The participants were then provided with handouts enumerating the ingredients and materials needed for the perfume and liquid dishwashing soap preparation as well as the procedure, sample costing and the supplier for the materials.

The participants evaluated the 2 activities altogether. The rating given to the program conducted by the School of Che-Chm, Mapua Institute of Technology is 4.694 out of 5. Positive comments about how thankful they are for this activity, about how helpful the activities can be to them and their livelihood, and they had fun were also given by some participants.

The participants were allowed to bring home the products prepared.





School of Electrical, Electronics and Computer Engineering

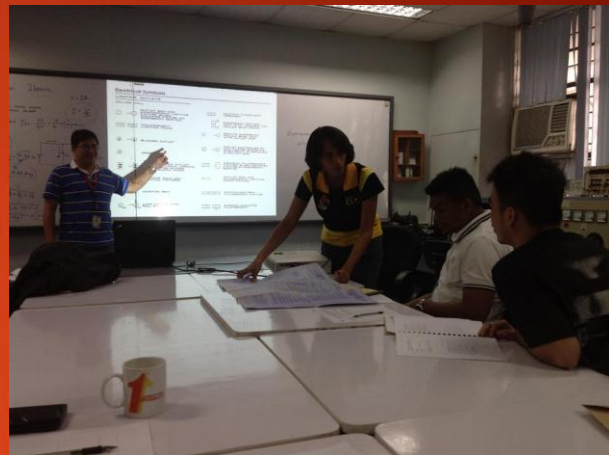
EECE teaches Branch Circuit Wiring

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The EE department of the school of EECE conducted the activity entitled "BRANCH CIRCUIT WIRING" from FEBRUARY 01, 2014 – February 08, 2014 at N205 (POWER ELECTRONICS LABORATORY), 2nd Floor North Building of the Mapua Institute of Technology, Intramuros Campus. All in all there were 9 lecturers from the faculty of the EECE department, and 5 learners from various barangays in Pandacan in Intramuros.

The 1st day of training was held last February 01, 2014 from 8am – 5pm. From 8am - 12nn, the following topics were covered: Introduction to electricity; Basic Electrical Safety; Basic Electrical Wiring Symbols; Basic Wiring Tools; Introduction to Branch Circuits; Selecting Power Receptacles Outlets. The lecturers were Engr. Esperanza Chua, Engr. George Vallesteros, and Engr. Joseph Bryan Ibarra. From the 1pm - 5pm, the following topics were covered: Selecting Branch Circuit Conductors; Wire Splicing of Branch Circuit Conductors; Selecting Branch Circuit Raceways; Selecting Splice, Junction, and Utility Box; Selecting Lighting Fixtures and Switches; Selecting Circuit Breakers and Fuses. The lecturers were Engr. Gerard Ang, Engr. Esperanza Chua, Engr. Cesar Coronado, Engr. Joseph Bryan Ibarra, Engr. Mary Ann Latina, Engr. Cyrel Manlises, Engr. Conrado Ostia, Engr. Francisco Uyvico, and Engr. Gorgonio Vallesteros.

The 2nd day of training was held last February 08, 2014 from 8am – 5pm. From 8am – 12nn, the facilitators conducted a workshop. From 1pm – 5pm, the facilitators conducted a practical exam. The facilitators were, Engr. Gerard Ang, Engr. Esperanza Chua, Engr. Cesar Coronado, Engr. Joseph Bryan Ibarra, Engr. Mary Ann Latina, Engr. Cyrel Manlises, Engr. Conrado Ostia, Engr. Francisco Uyvico, and Engr. Gorgonio Vallesteros. All the 5 learners passed the practical exam satisfactory.





School of Industrial Engineering and Engineering Management

IE-EMG Conducts Seminar for Bulacan State University

13

As part of the 'Adopt a School' project, a technical extension activity of the School of IE-EMG, two faculty members were able to conduct a seminar to the faculty of engineering of Bulacan State University.

Professor Elisier Fantillo delivered a half-day talk regarding Technopreneurship. Prof. Fantillo was able to share the learning he acquired from attending IDEA training.

In the afternoon, Prof. Jose Villegas provided the seminar on Total Productive Seminar (TPM) which covered the following topics:

- Industrial Backgrounder
- Introduction on Kaizen & TPM
- Conceptual Framework of Total Productive Maintenance (TPM)
- Elements and Pillars of TPM
- The Overall Equipment Effectiveness
- Role of Industrial Engineers in TPM

The topics provided by the faculty members will indeed be a good help to the participants as they can use them as part of their elective courses.





School of Information Technology

SOIT conducts Computer Literacy Training

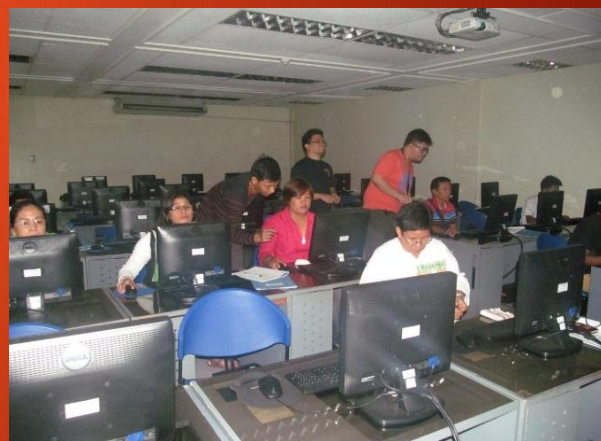
15

The training was about teaching the fundamentals of MS Office. It was attended by MMDA personnel, barangay officials and representatives from Pandacan.

The training In MS Word got the interest of the participants where they were able to learn how to properly change the format of the text and some designs were applied using Word Art. Page layout and other design concepts helped the participants to be more creative w/ professional outcome of the text. This is very useful to them since they usually encounter making business letters and usually submit documents for their work.

MS Excel was a bit challenging for the participants since a lot of applications were somehow new to them. Basic math computations were made easy through shortcuts and introduction of formula. The concept of table with rows and columns in computation with the use of keyboard and mouse function (shortcuts, dragging, highlighting) challenged the participants especially those who are young at heart or more matured than other attendees.

MS PowerPoint was a very entertaining training for the participants. Basic animation were introduced which includes sounds, layout or formatting, transitions and videos. They were able to learn how to create a slide presentation with professional layout and in an informative manner.





School of Languages, Humanities and Social Sciences

SLHS holds High School Class Discussions

17

Prof. Wilma Hamilton talked about beautiful hands and how to take care of them. She highlighted her talk by telling the students to “do good things for others”.

Ms. Genalyn Aquino’s talk was about taking care of the feet and ended by asking them the places where their feet might lead them and urged them to “go only to wholesome and beautiful places”.

Prof. Matilde Bangoy talked about taking care of and understanding the heart. She focused on how a healthy heart “shares goodness and kindness to people”.

Finally, Dr. Cristine Carmela Ramos talked about the soul and in keeping it “beautiful in the eyes of God”.

The seminar ended with the students and the facilitators singing the song “Heal the World”



SLHS holds English Camp

18

The aim of the CYCU English Camp was to increase the participating students' English proficiency by allowing them to attend lectures and activities that were geared towards the development of language skills.

To assess students' language proficiency level, they underwent pre-English Camp MELT, which was a two-part assessment. For the speaking test, students were divided into groups of three or four and were tasked to discuss a topic for 20-30 minutes; an assessor took note of their scores. For the writing test, students were asked to write an essay about globalization, which they needed to accomplish in 30 minutes.

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

English classes were designed to target all four macroskills, namely listening, speaking, reading and writing. The level of English lessons ranged from easy to average. To demonstrate the skills and competencies they had learned, students were required to take part in major tasks in the form of workshops, presentations, and competitions, oftentimes done at the end of the week.

The post-English Camp MELT was done in the same way as the pre-English Camp MELT. Their scores showed that more than half of those who underwent the program manifested significant language proficiency improvement. The ELC consolidated and documented the students' pre- and post-MELT scores.

At the end of the program, students were issued certificates of completion and post-MELT results.



SLHS conducts seminar for Barangay Officials

19

Thirty-eight (38) Barangay Officials participated in the activity. The activity started with a short skit showing different cases and scenarios of child abuse.

Prof. John Christopher Castillo lengthily discussed R.A.7610. As a registered Social Worker, he cited some of his experiences in handling various cases of child abuse, like cruelty, sexual, physical and emotional abuses. He cautioned the participants that R.A. 7610 is a sensitive order since some adults who might just be helping the victims may be wrongly accused of other issues.

Some Barangay Officials shared also their own experiences where, they too, handled same cases in their barangay. They were enthusiastic to know more information on R.A.7610 to enable them to respond better if such cases may occur in their barangay.

Prof. Antero Arias gave a follow-up talk on the topic by focusing on the psychological effects that the act could inflict on the victim.

The following SLHS faculty members served as reactors: Dr. Nestor Asuncion, Dr. Melba Bergado, Dr. Josephine Tuliao, and Prof. Genalyn Aquino. Dr. Christine Ramos gave a synthesis of the lecture.

The activity ended at 12:00 Noon.



Psychology conducts Seminar for Barangay Officials of Pandacan

20

The registration started at 1:00 P.M. The person in-charge was Prof. Wilma Hamilton and Prof Alvin Ignacio.

The opening prayer was led by Prof. Hamilton and Prof. Antero Arias led the singing of the Philippine National Anthem.

Prof. Antero Arias gave the Opening Remarks. He welcomed the participants (Public School Teachers of Pandacan) to the seminar and gave a short introduction about the Role of Teachers in Student Development.

The speaker, Prof. Jasmine Pinugu gave a talk on Worried, Sad and Stressed Students – A Teachers' Guide to Help Students through Tough Times

The participants (Public School Teachers) were very responsive to the topic. They were not hesitant in sharing their experiences and techniques.

Through this seminar, teachers still persist in the profession not because of material or financial benefit but because of a genuine desire to instill not only knowledge in their students but also act as second parents by providing them guidance to deal with situations, not just those within the classroom but most especially, outside of it because education is primarily a weapon of survival in this game of life.





School of Mechanical and Manufacturing Engineering

MME conducts Welding Seminar

22

The welding project taught the participants an introductory course on welding process and safety practices. The participants were from the community of Pandacan and the project output was a Hanging Garden which was placed in one of the barangay halls of the said community. So it is a win-win situation for the community because not only that their local folks learned the basic of Arc Welding and TIG Welding but also they had made an aesthetically designed garden to beautify their hall's facade. Not to mention the environmental advantage of such a garden that on its own little way promote a campaign of cleaning the air by putting more plants whenever and wherever is possible.

A total of 15 participants from Mapua's adopted communities attended the activity.





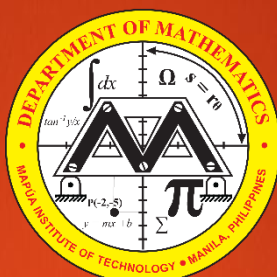
School of Multimedia and Visual Arts

SMVA Holds Seminar on Adobe Photoshop

24

The seminar Workshop on Adobe Photoshop covers image editing, manipulation, cropping, color correction, etc.

The seminar objectives are; a) Show how to use Adobe Photoshop to perform many different image processing techniques, how to use several tools for selecting parts of images; b) To provide trainees with relevant activities which can be applied in their livelihood programs; and c) To provide different outputs per session based on the community needs.



Department of Mathematics

Math Conducts Tutorial for ALEAP Learners

26

The Extension Service Committee of the Mathematics Department conducted review and lectures to ALEAP learners in preparation for the national equivalency test given by the Department of Education. In between the 4th quarter of SY 2013-2014 and 2nd quarter of SY 2014-2015, the activities rendered by the department started on April 27, 2014 with a mock examination which was administered to determine the readiness of the learners; after which on the succeeding Sundays (May 4, 11, 18 & 25, 2014; July 6 & 20, 2014; August 3, 10, 24, & 31, 2014; September 7, 2014), a series of lectures and review was conducted on the subjects covered by the equivalency test: Kasanayang Pangkomunikasyon, English Communication Skills, Matematika at Agham, Kabuhayan at Likas na Yaman, Pagpapalawak ng Pananaw. The learners were also given some pointers and reminders for the examination proper. Likewise, other topics in mathematics covered by the high school curriculum were also discussed.



Department of Physics

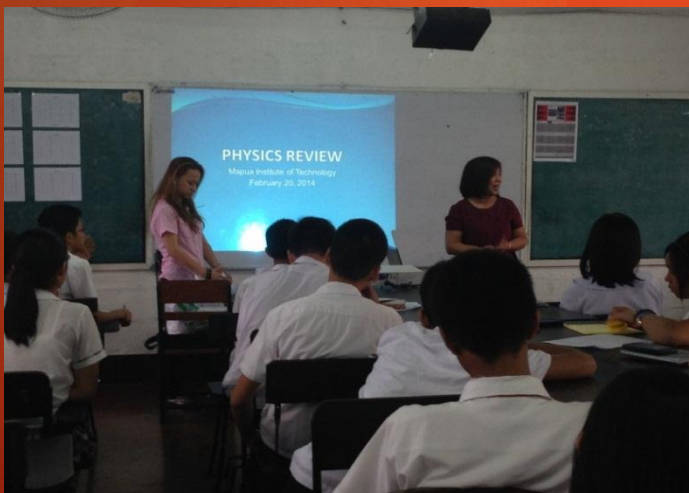
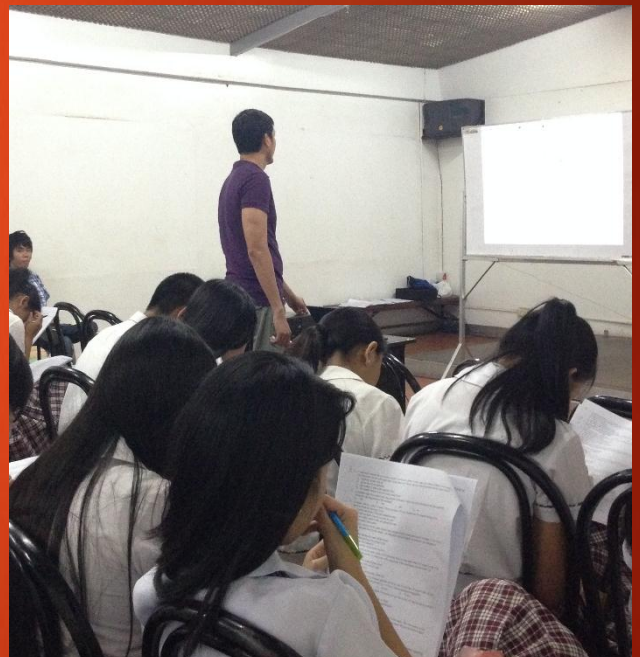
Physics Conducts Review Class to HS Students

28

The Department of Physics through its Committee on Extension Services conducted a review-lecture in Physics to the fourth year students of the PUP Laboratory High School in Sta. Mesa, Manila last February 20, 2014. The objective of the activity since it was conducted during the third term was to prepare the students when they take their National Achievement Test (NAT) which was scheduled a week after the activity. The activity also aimed to enrich the knowledge of the students in Physics since this is one of their subjects this school year.

The recipient group was composed of 136 fourth year students. This group was divided into two groups. The bigger consisted of 80 students while the smaller group had 56 students. The bigger group used the multi-purpose hall while the smaller group utilized a typical classroom. The activity was conducted in a parallel session method.

PROF. BOBBY MANLAPIG, who handled the bigger group and PROF. LIZA DALUZ, who took charge of the smaller group, were the lecturers in this activity. Their lecture covered all the topics being discussed in High School Physics namely; Vectors, Kinematics, Laws of Motion, Light and Optics, and Magnetism. The lessons were delivered in a conventional way of giving lectures in the classroom. After the lecture, a post-test was administered to measure if there is a learning that took place.





Department of Physical Education

PE conducts Zumba and Circuit Training

30

In the interest of providing extension service to fellow Mapuans, the PE and Athletics Department conducted fitness activities such as Zumba and Circuit Training during the 1st quarter of AY2014-2015. The said activities ran from August 5, 2014 to September 11, 2014 at the MIT Intramuros Campus. The activities were attended by the faculty members and staffs of Mapua Institute of Technology.

The activities were conducted every Tuesday, Wednesday and Friday. Tuesdays and Thursdays were intended for the Zumba routines which usually run for an hour. Wednesdays were for Circuit Training, exercises which move from one station to another.

The activities really paved way for the employees to be fit and they were given the chance to exercise after work hours. And with this, the participants wished for the programs to continue even after the given span of time.

The Dept. of Physical Education and Athletics is now considering to offer a new and peculiar fitness activities for the employees.



PE teaches Self-Defense

31

Last April 26, 2014, the PE Department launched their extension service program at Brgy. 860 Zone 94 in Pandacan, Manila.

The extension program was successfully attended and enjoyed by the tanods of the said barangay. The participants easily learned the basics of arnis and some of its advance techniques. All PE teachers of Mapua contributed to the success of the program.





Social Orientation and Community Involvement Programs (SOCIP)

Mapua holds Bloodletting

33

On 06 June 2014, the SOCIP Office conducted its semi-annual Bloodletting Activity at SW101 from 8:00AM-4:00PM. The activity as always was in coordination with Jose Reyes Memorial Medical Center, Manila Health Department and the Manila Lion's Club.

The SOCIP office sent email information of the activity to all Mapuans prior to the date of the Bloodletting. Likewise, posters and flyers were distributed inside the campus to help in the information dissemination of the activity.

During the activity, representatives from the Manila Health Department and Intramuros Health Office also came to assist in the activity. The group handled the Registration and Pre-Assessment Area where they handled the pre-assessment interview of the possible donors.

The JRRMMC doctors and staff handled the Assessment of donors which is the second area. The person is being verified about his medical condition including tests to check the hemoglobin count and blood type.

A total of 52 persons qualified to become blood donors.



Mapua holds Bloodletting

On 19 November 2014, the SOCIP Office in cooperation with the House of Investments, Inc. (HOI), one of YGC's subsidiary conducted a Bloodletting Activity at Mapua Institute of Technology Makati Campus. As observed, Mapua's partner Bleeding Team was Jose Reyes Memorial Medical Center (JRRMMC). The activity ran from 8:00AM – 2:00PM.

Coordination meetings were set between Engr. Joyrence Agas (Mapua) and Ms. Sonia Villegas (HOI) to settle everything prior to the date of the Bloodletting. Email announcements and Bloodletting posters were disseminated in both Mapua Makati and HOI to promote the activity.

The JRRMMC served as the Bleeding Team and Mapua and HOI assisted the registration and refreshments of the qualified donors.

A total of 40 volunteers donated in the Bloodletting. Volunteers were from the HOI and Mapua Makati Campus.



Mapua Offers Free Seminars for Partner High Schools

35

Aiming to improve the competencies of high school teachers and students, a two-batch seminar on Continuing Education in Science and Technology (CEST) 2014 was conducted at Mapua Makati Campus.

Spearheading the event, the Admissions Office sent out invitations to partner high schools from NCR, nearby provinces and Middle East Filipino schools. The schools were given the option to choose from 2 schedules. Batch 1 was schedule last April 21 to 23, while Batch 2 was geared to push through last July 22 to 24. Twenty five out of the 125 invited high schools pre-registered activity. The seminar-workshop focused on providing lectures on Chemistry, Physics, Mathematics, and Computer Science. The lectures also aim to promote Mapua as their Institute of choice for tertiary education.



Student Organization – MIT Student Catholic Action (MITSCA)

MITSCA conducts Outreach Program

37

The MITSCA conducted an outreach activity in the morning of Saturday, January 4, 2014 at Brgy. 847 Pandacan, Manila.

The program was a film showing with the movie entitled: The Grinch which tackles about the Christmas Season and teaches the value of giving specifically those included in the target audience.

After the movie presentation, discussions regarding values formation were done in relation to the movie shown. Values and characteristics such as gift giving, humility, trust of friends, loyalty and courage were discussed.

The kids were given snacks right after the activity.

Lastly, a closing prayer was done before ending the activity at around 11, before lunch and packed up the materials and returned home.



Student Organization – PICHE-JCMIT

PICHE-JCMIT Spearheads Livelihood Training

39

The Philippine Institute of Chemical Engineers-Junior Chapter of MIT (PICHE-JCMIT) held a livelihood training on Papaya Soap and Cologne Making, last January 26, 2014 at Brgy. 628, Pureza St., Sta. Mesa, Manila.

Together with the faculty members of the School of ChE-Chm, the PICHE-JCMIT taught the participants the proper procedures on how to make a papaya soap and cologne. The PICHE-JCMIT did the weighing of all the dry reagents needed and measured the required volume of the liquids.

Prof. Flordeliza De Vera gave the welcome remarks. Dr. Kathlia Cruz discussed the procedures of papaya soap and cologne making. Twenty participants from the barangay attended the activity. The participants were divided into six groups so they can perform the procedures by themselves. Each group has its own facilitator who discussed step by step the procedures of each activity.

When the activity was finished, the participants were asked to fill out the evaluation forms.



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