



Project Management Office
 Ateneo School of Government, Pacifico
 Ortiz Hall,
 Fr. Arrupe Road, Ateneo de Manila
 University, Katipunan Avenue, Quezon City,
 Philippines

(02) 426 6001 ext. 4640
 asepcellspmo@ateneo.edu

ACTIVITY REPORT

ACTIVITY TITLE: MindaCELLs Clean Energy Webinar Series 3 Solar Energy

DATE: October 15, 2021

VENUE: Online Zoom

PERSON/INSTITUTION HEADING THE ACTIVITY: Mindanao CELLS

1. Head of the Activity:

Mindanao CELLS

NAME	DESIGNATION	OFFICE
Dr. Rogelio C. Golez Jr.	Project Leader	XU MindaCELLs
Julemer Ann G. Aying	Project Manager	XU MindaCELLs
Marc Nico B. Labadan	Admin Assistant	XU MindaCELLs
Siegred Jade R. Lastimoso	Project Monitor	XU MindaCELLs
Engr. Jefferson R. Vallente Jr.	Component Leader	XU MindaCELLs
Engr. Rayette L. Abucejo	Junior Research Assistant	XU MindaCELLs

PARTICIPANTS

- **156(42.6%)** of the participants are from **Capitol University**;
- **97(26.5%)** of the participants are from **University of Science and Technology of the Philippines**;
- **86(23.5%)** of the participants are from **Xavier University Ateneo de Cagayan**
- **7(1.9%)** of the participants are **Mechanical Engineers**;
- **13(5.5%)** of the participants are from **Various Institutions (DENR, Manila Observatory, PICE XUSC etc.)**.



2. OBJECTIVES OF THE ACTIVITY:

- Energy Webinar Series 3
 - Discussion on: “Renewable Energy Technologies: SOLAR ENERGY”
 - Discussion on: “Solar PV Spatial Optimization: The Case of Cagayan de Oro”

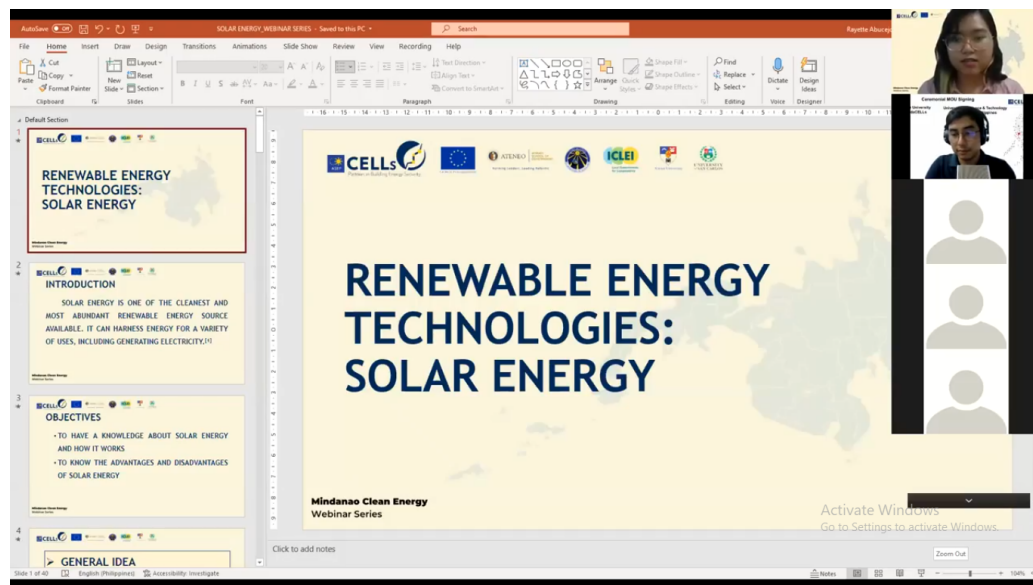
3. OUTPUT OF THE ACTIVITY:

Activity report and Documentation
Knowledge product (IEC materials)
Attendance

4. HIGHLIGHTS OF THE ACTIVITY

The Program started with Dr. Rogelio giving the Welcoming remarks

After the welcoming remarks proceeded with the 1st presentation by Engr. Rayette Abucejo on “Renewable Energy Technologies: SOLAR ENERGY”.





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asep-cellspmo@ateneo.edu

Engr. Rayette discussed the basic understanding of solar energy how it is one of the cleanest, most abundant Renewable Energy source available, and how it is harnessed in various uses including generating electricity.

The objective of her presentation is to have knowledge about Solar energy and how it works, and what are its advantages and disadvantages.

She also discuss about solar irradiance, its output of light energy from the entire disk of the sun how it measured from earth.

She proceeded with different technologies that collect, measure and harness Solar Energy



SOLAR PANEL

A SOLAR PANEL IS ACTUALLY A COLLECTION OF SOLAR (OR PHOTOVOLTAIC) CELLS, WHICH CAN BE USED TO GENERATE ELECTRICITY THROUGH THE PHOTOVOLTAIC EFFECT.^[4]



Mindanao Clean Energy
Webinar Series

CHARGE CONTROLLER

A CHARGE CONTROLLER OR CHARGE REGULATOR IS BASICALLY A VOLTAGE AND/OR CURRENT REGULATOR TO KEEP BATTERIES FROM OVERCHARGING. IT REGULATES THE VOLTAGE AND CURRENT COMING FROM THE SOLAR PANELS GOING TO THE BATTERY. ^[8]



Mindanao Clean Energy
Webinar Series

LEAD ACID

WHILE THEY HAVE A RELATIVELY SHORT LIFE AND LOWER DEPTH OF DISCHARGE (DoD) THAN OTHER BATTERY TYPES, THEY ARE ALSO ONE OF THE LEAST EXPENSIVE OPTIONS CURRENTLY ON THE MARKET IN THE HOME ENERGY STORAGE SECTOR. ^[10]



Mindanao Clean Energy
Webinar Series

She explained each technology like the Solar Panel, Charge Controller, Lead Acid, Lithium Ion, Inverter and etc.

She was able to discuss the Basic Concept of Electricity, using Ohm's Law and Power under Direct Circuit. Explained the formula for Ohm's Law and its functionality, Electric power rate per unit time and how it is transferred by an electric circuit



Then she proceeded with the Advantages and Disadvantages of Solar Energy;

 **ADVANTAGES**

- RENEWABLE ENERGY AND CLEAN
- REDUCES ELECTRICITY BILL
- DIVERSE APPLICATIONS
- LOW MAINTENANCE COST
- TECHNOLOGY DEVELOPMENT

Mindanao Clean Energy Webinar Series

 **DISADVANTAGES**

- COST
- WEATHER DEPENDENT
- STORAGE IS EXPENSIVE
- CONSUMES A LOT OF SPACE

Mindanao Clean Energy Webinar Series

Also added examples of Solar Farms Available in the Philippines and its land use; like Cadiz Solar Farm, Calatagan Solar Farm, San Carlos Sun Power, Cepalco Solar PV Plant etc.

on the 2nd presentation, Engr. Jefferson presented the “ Solar PV Potential Spatial Optimization: The case of Cagayan de Oro City”



the presentation introduced how Solar Energy is stored and harnessed depending on conditions of the location. Engr. Jefferson explained how allocation of harvesting Solar Energy is critical on structural considerations.



Engr. Jefferson was able to show the maps of SolarPV Farms available in Northern Mindanao, he was also able to explain how each location are optimal for Solar Energy Gathering, according to him when choosing a site for Solar PV a road along its proximity to residential homes are considered.



He also explained how they used GIS to create a system for the data to be analyzed, usually software like “Google Earth”- GIS are commonly used for display; Engr. Jeff mention the uncommon part of its use which is its function for analyzing, managing and capturing of maps and data.

He guided the participants through research questions such as: What exists at a particular location; Identifying location where certain condition exists; and what if scenarios etc.

He was able to explain the design for the scoring system in GIS, by using different frameworks and analyses, they can aid in the decision making process; he explained each system which are the Binary, Weighted Overlays and Multi-Criteria Decision Analysis.

Then he transitioned to their study that aims to utilize multi-criteria decision framework that integrates a geographical information system with a fuzzy analytic network process together with weighted linear combination to optimize the location of solar PV sites in Cagayan de Oro City.



He explained their methodology using the fuzzy method and cluster identification etc.

According to the results of their study, Mindanao has a “high” potential to source its power from Solar, that most of its land can be turned to solar farms with varying efficiency, suitability and associated risks. He showed which HUCs have high Power Demand and explained how Supply is primarily given.

Power Demand

- Demand is large in HUCs:
Zamboanga, Cagayan de
Oro, Davao, General Santos



He also showed various maps on Road networks and particular areas good in terms of space and risk free.

Zones outside of Forests (2020) & Land Use Mapping (2015)

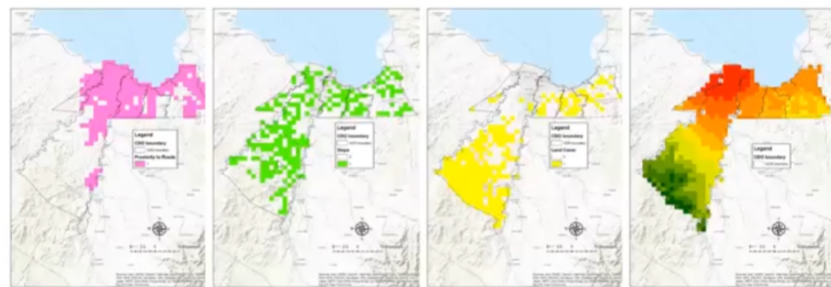




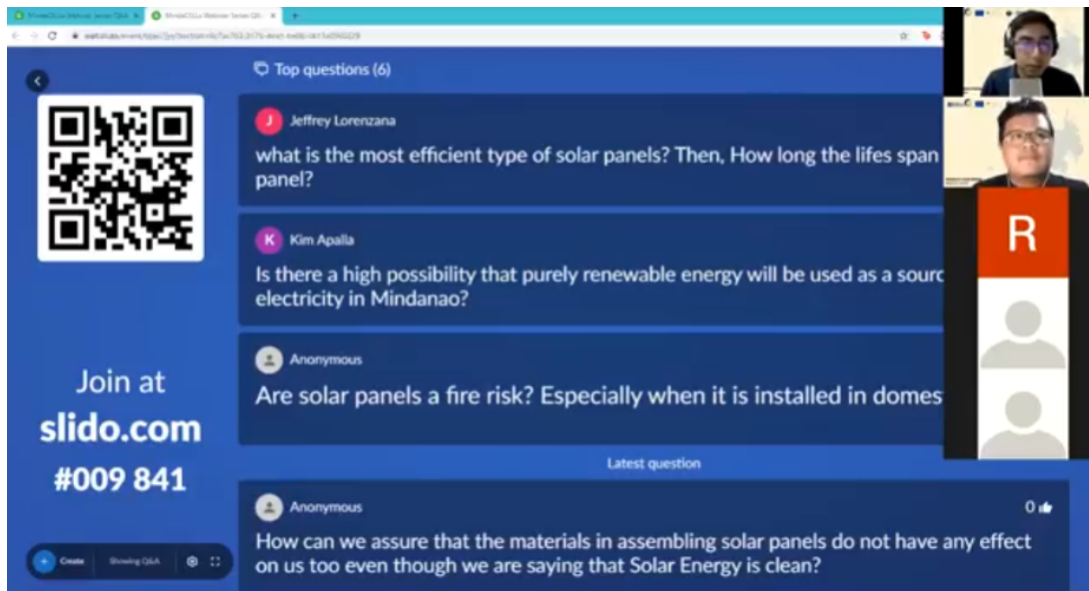
Earthquake events (2019-2020)



Valuing and Fuzzy Method



Then the program proceeded with the Open Forum, Participants were given access to an online platform where they can input their questions. They were very active in giving good questions to our speakers and most of the answers given were appreciated.



The program then proceeded to the Awarding of speakers and Certificate of Participation were given to the Participants

Ended with Closing Remarks and a Documentation Photo.

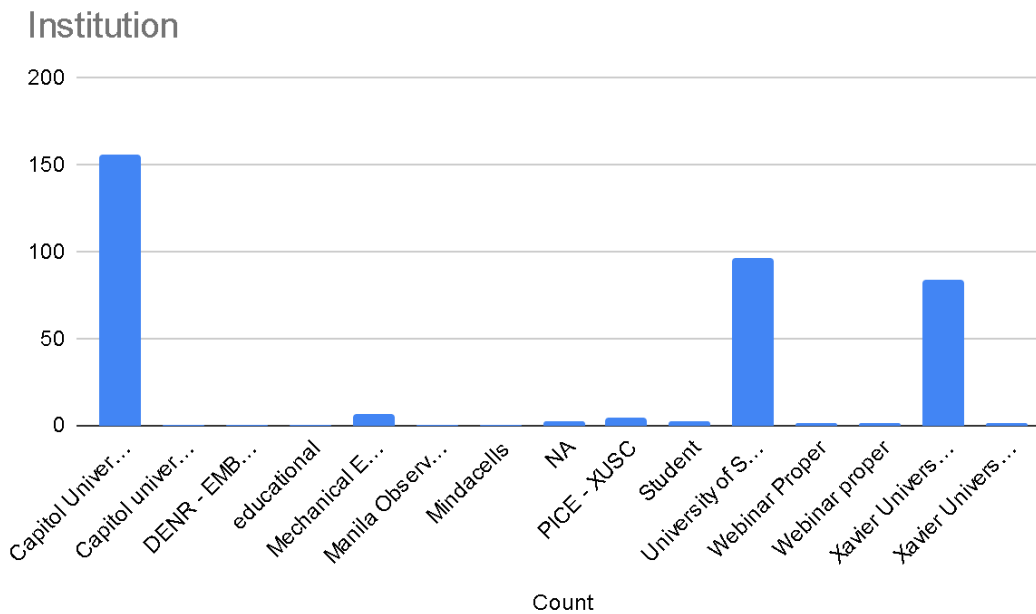




Figure 1 Bar charts of number of students per institutions participated

There were 368 participants registered in the Webinar Series 3, below is the summary in percentage:

- **156(42.6%)** of the participants are from **Capitol University**;
- **97(26.5%)** of the participants are from **University of Science and Technology of the Philippines**;
- **86(23.5%)** of the participants are from **Xavier University Ateneo de Cagayan**
- **7(1.9%)** of the participants are **Mechanical Engineers**;
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Count

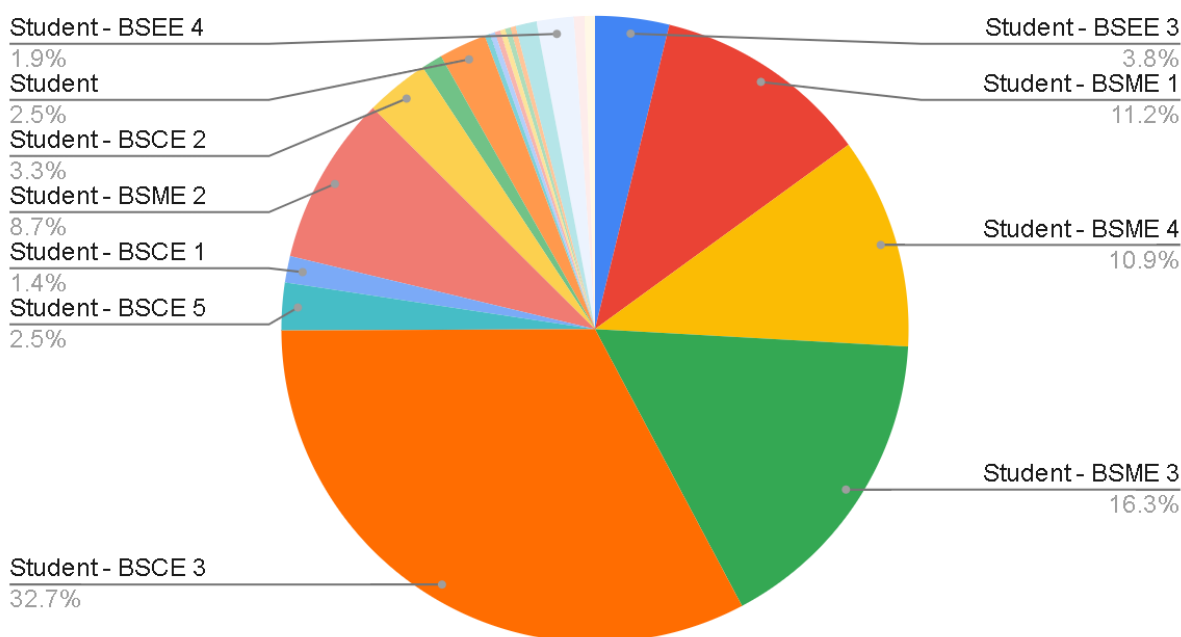


Figure 2 Pie Chart of students per courses and level

Distribution of participants by course:

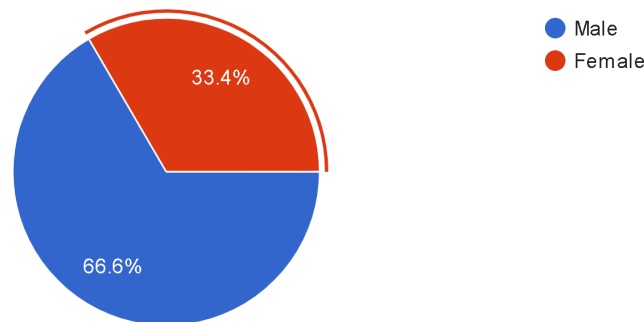


- **(39.9%) of the total participants are 1st - 5th year Bachelor of Science in Civil Engineering Students;**
- **(47.1%) of the total participants are 1st - 4th year Bachelor of Science in Mechanical Engineering Students;**
- **(6.7%) of the total participants are 1st - 4th year Bachelor of Science in Electrical Engineering Students;**
- **(6.3%) of the total Participants are from Various Affiliations (Students, Junior Research Assistants, Monitoring officers)**

Gender of the participants:

- From 368 registered participants, there are 66.6% male and 33.4% *female*.

Gender
368 responses



5. ISSUES/CHALLENGERS/RECOMMENDATIONS:

Issues/ challenges	Recommendations/ agreements
• Internet status is very good • Encourage students to participate in a Q and A portion	• Create more innovative on how students can participate in a Q and A portion



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6. NEXT STEPS:

- Prepare for another webinar series 4
- Invite more students
- Prepare documentation of the event

Prepared by:


Marc Nico B. Labadan
Admin Assistant

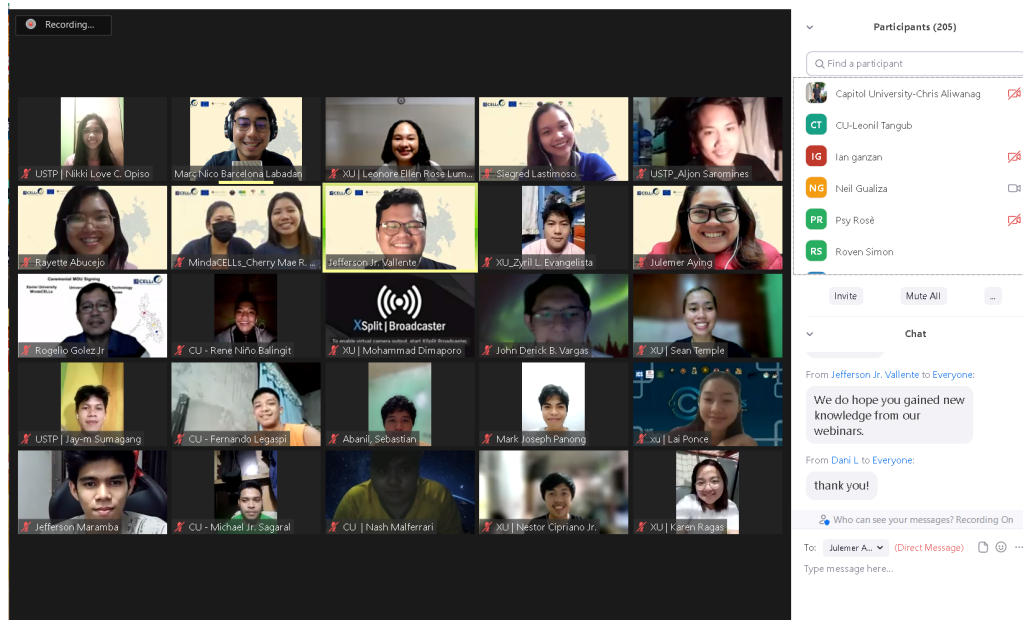
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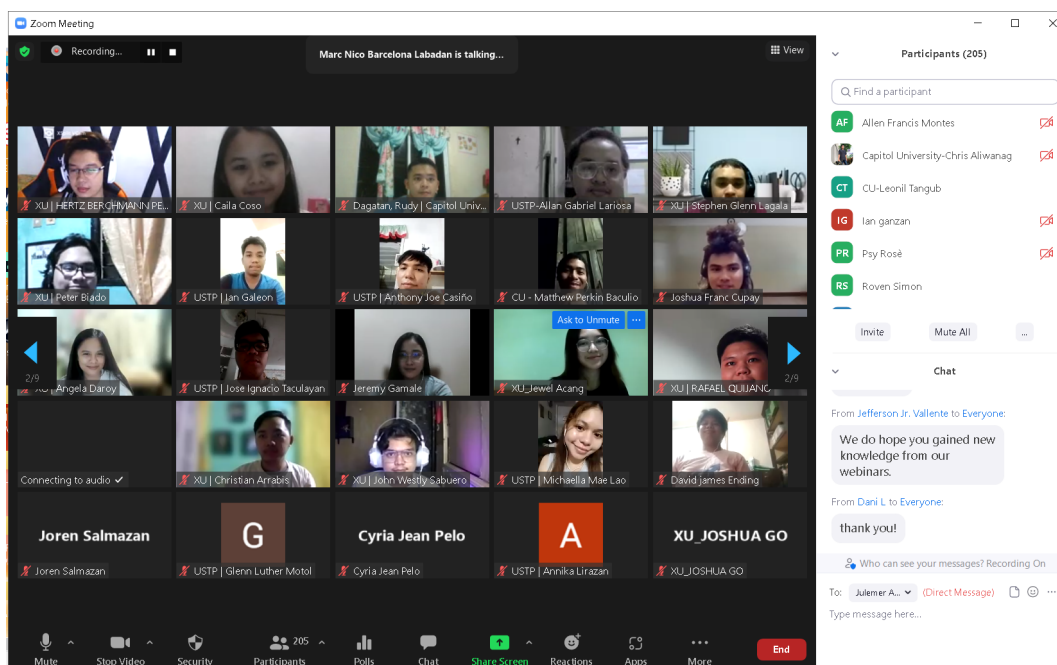
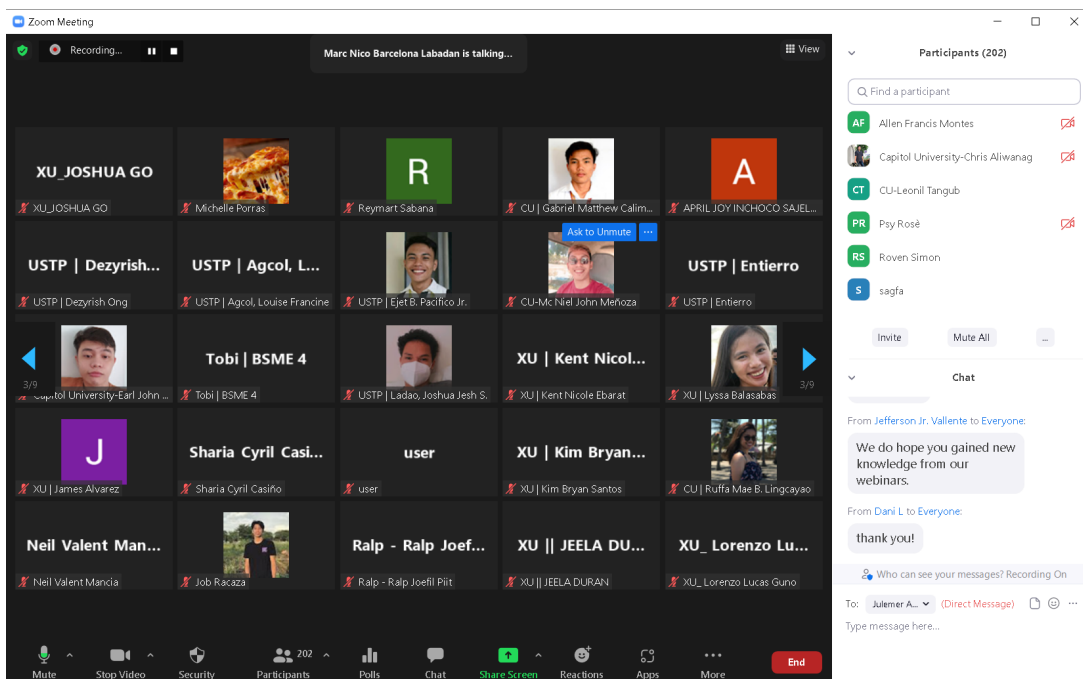

Julemer G. Aying
Project Manager


Dr. Rogelio C. Golez Jr.
Project Leader

APPENDICES

APPENDIX A. Online zoom picture with the participants.





APPENDIX B. List of participant's name, course and institutions.



Name	Designation	Organization
Loqueloque, Danica, A	Research Assistant- Regional Climate Systems Laboratory	Manila Observatory
Padilla, Glenn Ian E.	ESWM Staff - CE Environmental Monitoring Officer	DENR - EMB REGION X
Apdua, Marvin, G.	Student	Xavier University - Ateneo de Cagayan
Piit, Ralp Joefil, G.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Laguindab, khail hasiem, K.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Maali, Kurt Axl, D.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Petre, Shaun, C.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Lumantas, Leonore Ellen Rose L.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Sarraga, Djako Sebastian F.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Espulgar, Viem, M.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Restauro, Kent Dwight, S	Student - BSCE 3	Xavier University - Ateneo de Cagayan
WATAMAMA, JUMANAH, N.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Daquiado, Mycca, D.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Balasabas, Lyssa Nette E.	Student- BSCE 3	Xavier University - Ateneo de Cagayan



Arrabis, Christian Jay M.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Gamale, Jeremy, G.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ponce, Ma. Elizalou, V.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Salcedo, Steve Kurt P.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Daroy, Kyle Angela B.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Evangelista, Zyril L.	Student BSCE 3	Xavier University - Ateneo de Cagayan
Ilisan, IremaRL, B.	Student- BSCE 3	Xavier University - Ateneo de Cagayan
Chou, Sean Kyle P.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Mawile, Kurt Allen C.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Dimaporo, Mohammad Fahad, P.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Nambatac, Kenneth, C.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Opeña, Jov Cyril C.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Calunsag, Leonard B.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Cipriano, Nestor Jr., D.	Student - BSCE 3	Xavier University - Ateneo de Cagayan



Baylin, Adrienne RaphaelL, C.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Chan, Alexander David, G.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Guno, Lorenzo Lucas, A.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Jungoy, Jeanny Pearl A.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Coso, Caila Isobelle T.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Cupay, Joshua Franc, A.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Entrampas, Mary Louise U.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Tacang, Cae Roseianne Larks P.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Rabusa, Leigh Anne Dave S.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Temple, Sean Mary M.	Student - BSCE 4	Xavier University - Ateneo de Cagayan
Casiño, Christian James T.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Rosales, Ranielle Carmeli R.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Montanez, Rene Francisco III A.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Saldua, Donabel G.	Student - BSCE 3	Xavier University - Ateneo de Cagayan



Olaivar, Karl Andree, B.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Pelias, Hertz Berchmann	Student - BSCE-3	Xavier University - Ateneo de Cagayan
Llena, Angel Shane	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Maleficio, John Philbert, L.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Llesis Jr., Paul, S.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Alvarez, James Melvin, E.	Student, BSEE 1	Xavier University - Ateneo de Cagayan
Quijano, Rafael Jose S.	Student - BSCE 1	Xavier University - Ateneo de Cagayan
Robles, Mark Ian Khryslar	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ramiro, Dave Julann, M.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Santos, Kim Bryan G.	Student - BSCE	Xavier University - Ateneo de Cagayan
Go, Joshua James, M.	Student - BSCE-3	Xavier University - Ateneo de Cagayan
Rabusa, Leigh Anne Dave S	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Bela-ong, Jannel, C.	Student - BSCE	Xavier University - Ateneo de Cagayan
Sajelan, Kristine, I.	Student - BSCE 3	Xavier University - Ateneo de Cagayan



Velasco, Carmela Denielle A.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ramos, Roselle Ann G.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Cruza, Lourealle Caroline V.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Aguadera, Jila, S.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Cruz, Jesse Jose, O.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Malinis, Beau Bennett, L.	Student - BSME - 3	Xavier University - Ateneo de Cagayan
Lagala, Stephen Glenn, A.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Labor, Earl Patrick Hope, Y.	Student - BSCE 2	Xavier University - Ateneo de Cagayan
Uy, Emil Ian M.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Rosales, Ivy D.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ragas, Karen Claire B.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Fahigal, Ryan Z.	Student - BSME	Xavier University - Ateneo de Cagayan
Villegas, Rhendil O'Neil O.	Student - BSEE 3	Xavier University - Ateneo de Cagayan
Opalla, Johpit Vincent R.	Student - BSME 4	Xavier University - Ateneo de Cagayan



Labor, Earl Patrick Hope, Y.	Student-BSCE 2	Xavier University - Ateneo de Cagayan
Bela-ong Jannel C	Student - BSCE	Xavier University - Ateneo de Cagayan
Duran, Jeela A.	Student - BSME 3	Xavier University - Ateneo de Cagayan
Tagle, Robin Nicolo L.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Ebarat, Kent Nicole, G.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Noynay, Jeff Kent P.	Student - BSCE 2	Xavier University - Ateneo de Cagayan
Nalual, Dave Christian D	Student - BSME 3	Xavier University - Ateneo de Cagayan
Sabuero, John Westly S.	Student - BSME 3	Xavier University - Ateneo de Cagayan
Canubas, Dexter Dave A.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Biado, Peter Jashon A. Biado	Student - BSME 3	Xavier University - Ateneo de Cagayan
Sajelan, April Joy I.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Llena, Angel Shane	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Piator, Mark Gerry, G.	Student - BSCE 4	Xavier University - Ateneo de Cagayan
Porras, Michelle E	Student – BSCE 3	Xavier University - Ateneo de Cagayan



Saliot, Satrianni G.	Student – BSCE 3	Xavier University - Ateneo de Cagayan
Molok, Nonisha C.	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Disomimba, Norhailyn D.	Student-BSCE 3	Xavier University - Ateneo de Cagayan
Tacastacas, Hannah Dale L.	Student- BSCE 3	Xavier University - Ateneo de Cagayan
Hinampas, Johville C.	Student - BSME 4	Xavier University - Ateneo de Cagayan
Micabalo, Alaiza Grace C.	Student	Xavier University - Ateneo de Cagayan
Pino, Angel Mike R.	Student - BSME-4	Capitol university
Cabarubias, Jhorvin P.	Student - BSME-4	Capitol university
Tagapulot, Shyne B.	Student - BSME 4	Capitol university
Tongco, Fritz Naven C.	Student - BSME 4	Capitol university
Tacataca, Krisssha Marre L.	Student - BSME 4	Capitol university
Español Froelan P.	Student- BSME3	Capitol university
Lorenzana, Jeffrey B.	Student - BSME 4	Capitol university
Villareal, Joel E.	Student - BSCE 3	Capitol university
Hagonao, Clyde G.	Student - BSCE 3	Capitol university
Castrodes, Paolo A.	Student - BSCE 3	Capitol university
Abao, Jessa E.	Student - BSCE 5	Capitol university
Fullo, Glorylourd Joana C.	Student - BSCE 3	Capitol university
Temblor, Cristene Joy L.	Student - BSCE 3	Capitol university



Ruffa Mae B. Lingcayao	Student- BSCE-3	Capitol university
Maramba, Jefferson V.	Student - BSCE 5	Capitol university
Narciso, Shandee M.	Student - BSCE3	Capitol university
Mujeres, Shenna Mae C.	Student - BSCE-3	Capitol university
Ganzan, Ian Benedict E.	Student - BSCE 3	Capitol university
Herrero, Lance Eisenhower P	Student - BSME4	Capitol university
Sagaral, Michael Jr. T.	Student - BSME 3	Capitol university
Tejares, Apple Grace N.	Student - BSCE-3	Capitol university
Clementes, Reuben P.	Student - BSCE	Capitol university
Sarip, Rainida B.	Student - BSCE 3	Capitol university
Collados, Gerald G.	Student - BSCE 3	Capitol university
Tangapa, Kaycee H.	Student-BSCE 3	Capitol university
Tajale Jay Dem L.	Student	Capitol university
Rosal, Jhay Clifford, I.	Student - BSCE 3	Capitol university
Aliwanag, Chris A.	Student - BSCE 3	Capitol university
Paje, John Kenneth G.	Student - BSCE 3	Capitol university
Lumindas, Jie B.	Student - BSCE 3	Capitol university
Apalla, Kim Klerck R.	Student - BSME 3	Capitol university
Malana, Joforce Karl Fredrich, D.	Student - BSME2	Capitol university
Cuñado, John Carl Francis A.	Student - BSME 3	Capitol university
Tangub, Leonil C.	Student - BSCE 3	Capitol university
Feleciano, Phermel M.	Student - BSCE-2	Capitol university



Obut, Jesus A.	Student - BSCE 3	Capitol university
Meñoza, Mc Niel John A.	Student - BSME 3	Capitol university
Tabamo, Earl John B.	Student BSME 1	Capitol university
Abuel, Jay Kevin B.	Student - BSME 3	Capitol university
Icayan, Dann Cyrill Vallejera	Student-BSME 4	Capitol university
Cabigon, Brex, D.	Student - BSCE 3	Capitol university
Rachel May Malagom	Student	Capitol university
Dejan, Joseph Joshua Yacapin	Student - bsme - 3	Capitol university
Herrero, Lance Eisenhower P	Student - BSME 4	Capitol university
Muyco, Tiffany Jel M.	Student - BSCE 3	Capitol university
Herrero, Lance Eisenhower P	Student - BSME - 4	Capitol university
Llacuna, Alexis John C.	Student - BSME 2	Capitol university
Delapena, Rizalyn B.	Student - BSCE 3	Capitol university
Ventayen, Rhea Mae R.	Student - BSCE 2	Capitol university
Mancia, Neil Valent O.	Student - BSME 1	Capitol university
Palarca mariel B.	Student - BSCE 3	Capitol university
Sarsalejo, Marsthinie, O.	Student - BSCE-3	Capitol university
Pimentel II, Rex, D.	Student - BSME 2	Capitol university
Cacho, Dave L.	Student- BSCE 2	Capitol university
Schwab, Robin Belle T.	Student - BSME 4	Capitol university
Pajaron, Alixus Dann A.	Student - BSME 2	Capitol university
Acenas, Aeralyne V.	Student - BSCE 5	Capitol university



Requillo, Nyl Vincent R.	Student- BSCE3	Capitol university
Adante, Dimple M.	Student - BSCE 3	Capitol university
Faigane Reynaldo J. iii	Student - BSME 3	Capitol university
Balingit Rene Niño M.	Student-BSME 3	Capitol university
Pino, Jimmy L.	Student-BSCE 3	Capitol university
Legaspi Jr. Fernando Dalid	Student - BSME 3	Capitol university
Tangapa, Kaycee H	Student - BSCE 3	Capitol university
Monsanto, Bryan,L.	Student - BSME-2	Capitol university
Loyloy, Annabe R.	Student - BSME 3	Capitol university
Waga, Clive Nicole, E.	Student- BSME 1	Capitol university
Sabuero, Rixter Jhon, Padilla	Student-BSME-2	Capitol university
Legues, Vincent	Student - BSCE 2	Capitol university
Floresca, Czny Fer B.	Student BSCE 3	Capitol university
Polinar, Zenia Marie Quidra	Student - BSME 1	Capitol university
Agir, Kiderson L.	Student - BSME 2	Capitol university
Dayday, J-mayrich B.	Student - BSME 3	Capitol university
Hj.Moh.Maulana, Almindrib Ybañez	Student - BSCE 2	Capitol university
Baculio, Matthew Perkin, C.	Student - BSME 3	Capitol university
Canino, Jane Mark D.	Student-BSME 3	Capitol university
Acac, Kent Gerald Berongoy	Student- BSME 3	Capitol university
Lumbay, Dave Edward, T.	Student- BSME 3	Capitol university
Ragmac, Vincent Paul I.	Student - BSME 2	Capitol university



Lumba Kyle Andrey R	Mechanical Engineering	Capitol university
Malferrari, Erick Nash A.	Student - BSME 2	Capitol university
Llamis, Jasper, Lonon	Student - BSME 2	Capitol university
Banawan, Fletcher Karl B.	Student - BSME-2	Capitol university
Hinampas, Leobert T.	Student- BSCE 3	Capitol university
Dalit, Armito III	Student- BSME 2	Capitol university
Enlawan, Meiji Imri M.	BSME 2	Capitol university
Calimutan Gabriel Matthew S.	Student BSME-2	Capitol university
Navajo, Cristy Jane N.	Student - BSCE 3	Capitol university
Obsioma, Kim N.	BSME 1	Capitol university
Looc, Rey	BSME - 4	Capitol university
Esguerra, John Francis U.	Student - BSME 2	Capitol university
Vallar, Ken Allen	BSCE 5	Capitol university
Mejorada, Francis Kaye C.	Student - BSCE 3	Capitol university
Pilaton, Yngwie Jay P.	Student - BSME 2	Capitol university
Montes, Allen Francis A.	Student- BSCE-3	Capitol university
La Victoria, Rommel, L	BSME-3	Capitol university
Ravidas, Jose Allan Jr, C	Student - BSME 1	Capitol university
Cuaresma, Rhod Mark C.	Student - BSCE-2	Capitol university
Longcob, Joymee D.	Student - BSCE 3	Capitol university
Cajes, Johnlery, T.	Student - BSCE-3	Capitol university
De La Vega, Rhea Vanessa B.	Student - BSCE 3	Capitol university



Pinote, Carla T.	Student -BSCE 3	Capitol university
Edol, Justin R.	Student - BSCE-3	Capitol university
PARAGOSO,RACHELLE MAE B.	Student - BSCE-3	Capitol university
Ravidas, Jose Allan Jr. C	Student - BSME 1	Capitol university
Ayon Joven Howie Z.	Student - BSME 3	Capitol university
AGBALOG, ARBIEN JOHN B.	Student - BSCE 3	Capitol university
Villaruz, Raye Kris J.	Student - BSCE 3	Capitol university
Duterte, Gian Dave M.	Student - BSME 1	Capitol university
Emata, Jun Clark, S	Student - BSCE-5	Capitol university
Lingcayao, Ruffa Mar B.	Student - BSCE3	Capitol university
Guibone John Mark I.	Student - BSCE-3	Capitol university
Dagatan, Rudy Z.	Student - BSCE 3	Capitol university
Jayma Earl John Garces	Student - BSME 3	Capitol university
Mantilla , Jonard , Lusterio	Student - BSME 4	Capitol university
Lloren, Marlo John Tabunan	Student - BSME 4	Capitol university
Santos, Jessa Ruth B.	Student- BACR	Capitol university
Escalante, Michael Chen M.	Student- BSME3	Capitol university
Morales, Tyron, Bayang	Student - BSME 1	Capitol university
Pol, Heather Reen G.	Student - BSCE 3	Capitol university
Pacaldo, Clintford D.	Student - BSME-5	Capitol university
Mejorada, Francis Kaye C.	Student - BSCE 3	Capitol university
Palmes, Reza Hanne D.	Student - BSCE 3	Capitol university



Saldua, Ernesto	Student - BSME-1	Capitol university
Sumaylo, Clarence S	Student - BSME II	Capitol university
Omictin, Darwin G.	Student - BSCE-5	Capitol university
Masing, Marvin N.	Student	Capitol university
Abad, Albert T.	Student - BSCE-5	Capitol university
Balaba John Niño E.	Student - BSME 3	Capitol university
Cagampang, Stephen W.	Student - BSCE 2	Capitol university
Ampo, Khen Louis B.	Student - BSCE-5	Capitol university
Balibagon, Psyrose B.	Student - BSME-1	Capitol university
Rojas, Marc Raphael M.	Student - BSCE-2	Capitol university
Muit, Daniel Dave L.	Student - BSCE 3	Capitol university
Nagar, Christopher S.	Student - BSCE 3	Capitol university
Omongos Niño James C.	Student	Capitol University
Tangapa, Kaycee H.	Student-BSCE3	Capitol University
Tabaranza, Joshua S.	Student - BSME 1	Capitol University
Ayag, Leo Andro A.	Student- BSME-3	Capitol University
Amores, Paul Harry B.	Student - BSCE 3	Capitol University
Boco, Jalen Rose E.	Student- BSCE-2	Capitol University
Visaya, Marvin C.	Student-BSCE3	Capitol University
Dosdos, Mary Jane D.	Student- BSCE 3	Capitol University
Zapanta, Sandy Mae T.	Student - BSCE 3	Capitol University
Palmes Reza Hanne D.	Student - BSCE 3	Capitol University



Abucejo Haziel Kaye C.	Student - BSCE 3	Capitol University
Español Froelan P.	Student - BSME 3	Capitol University
Ubagan Michael John	Student - BSME 3	Capitol University
Rosales, Manny	Student - BSME 4	Capitol University
Zamayla, Christian, Jimenez	Student BSME-3	Capitol University
Tubac, Doumar Anthony, N.	Student - BSME 4	USTP
Mama, Jamel Raheem S.	Student - BSME 3	USTP
Edulan, Sorayah Mae, C.	Student -BSME 3	USTP
BAJUYO, ANDREW PHILIP M.	Student - BSME 3	USTP
Delas Peñas, Elnard G.	BS in Mechanical Engineering	USTP
Buendia, Bon Anthoney	Student - BSME 4	USTP
Panong, Mark Peter G.	Student - BSME 3	USTP
Panong, Mark Joseph G.	Student - BSME 3	USTP
Taculayan, Jose Ignacio, S.	Student - BSME 4	USTP
Yonson, Mark Oliver T.	Student - BSME 2	USTP
Sumagia, Larry R.	Student- BSME 3	USTP
Salvatiera, Jullie Mae M.	Student - BSME 3	USTP
Edorot, Divine Grace C.	Student - BSME 3	USTP
Bation, Aipaj Mark B.	Student – BSME 2	USTP
Mabao, Joel Kelly C.	Student - BSME 1A	USTP
Casiño, Earl Anthony, N.	Student - BSME 4	USTP
Castro Dave O.	Student -BSME 1st	USTP



Amihan, Jhomel T.	Student - BSME 1a	USTP
Redoblado, Keith Lourence A.	Student - BSME 1	USTP
Vargas, John Derick B.	Student - BSME 3	USTP
Ballesteros, Matthew Joseph, D.	Student - BSME 1	USTP
Abanil, Sebastian Dominikos Byrne	Student - BSME 1	USTP
Torres, Franz Joseph M.	Student - BSME 1	USTP
Casiño, Sharia Cyril P.	Student - BSME 4	USTP
Juntilla, JB Jhon P.	Student - BSME3	USTP
Dimasindil, Halim S.	Student- BSEE4	USTP
Paigalan, Nemuel Jhon E.	Student- BSEE4	USTP
Candaroma, Katriona Maxinne G.	Student - BSME 4	USTP
Paredes, Jhon Eric B	Student- BSEE 4	USTP
Venezuela, Justine O.	Student - BSME 3	USTP
Dagcuta, Kristine, L.	Student - BSEE 4	USTP
Simpas, Neil Gregory A.	Student - BSME 4	USTP
Estillore, Cherry Mae P.	Student - BSME 4	USTP
Villanueva, Mae C.	Student-BSME 3	USTP
Motol, Glenn Luther R.	Student - BSME 4	USTP
Oclarit, Asizah Rebecca	Student - BSME 3	USTP
Olapé, Harvey Kent, M.	Student - BSME 3	USTP
Venz Dmitri G. Misanes	Student – BSME 1	USTP



Calaque, Kyron Davonn, C.	Student - BSME 4	USTP
Liman-ay, Ayesha Baila J	Student-BSME 1E	USTP
Libanta, Homzelle, C.	Student - BSEE 4	USTP
Angcla, Jullien Lorilli T.	Student - ME 1A	USTP
Juanillo, Kent Andre B.	Student - BSME 1	USTP
De La Peña, Mary Princess C.	Student - BSME 4	USTP
Motlog, Reydel Joshua P.	Student - BSME 4	USTP
Apa, Caryl Mae J.	Student - BSEE 3	USTP
Dime, Joyce E.	Student BSEE-3	USTP
Ong, Dezyrish Mae Y.	Student - BSEE 3	USTP
Salinas, Danzel Timothy D.	Student - BSEE 3	USTP
Mapeso, Racel Nicole B.	Student- BSEE 3	USTP
Paner, Edgar C.	Student - BSEE 3	USTP
Esmero, Michaela T.	Student - BSEE 3	USTP
Pelo, Cyria Jean B.	Student-BSEE 3	USTP
Ursabia, Benn Melchizedek B.	Student-BSEE3	USTP
Valenciano, Johsie Mae D.	Student-BSME3	USTP
Apus, Shaneika Mae S.	Student - BSME 3	USTP
Tacobo, April Jean T.	Student - BSME 1	USTP
Palanas, Zyhrelle Fitz L.	Student – BSME 1	USTP
Danggoy, Danica Rose Z.	Student- BSME 5	USTP
Siquijor, Nicholas Raphael C.	Student - BSME 3	USTP



Magbaril, Godwin Francis L.	Student- BSME 1	USTP
Opiso, Nikki Love, C.	Student-BSME 1	USTP
Cello, Ivy Antoinette G.	Student- BSME 1	USTP
Misbak, Muhidden, Y.	Student - BSME 2	USTP
Salmazan, Joren, T.	Student-BSME 3	USTP
Casiño, Anthony Joe, B	Student - BSEE 2	USTP
Pacifico, Ejjet, Jr. B.	Student - BSME 2	USTP
Sumagang, Jay-M T.	Student - BSME 2	USTP
Dizon, Philip Jade	Student-BSME 2	USTP
Hopilos, Cromwell C.	Student - BSME 3	USTP
Lerin, Louel Gray, G.	Student - BSEE 3	USTP
Codera, Gian Mikko R.	Student - BSME 3	USTP
Lao, Michaela Mae R.	Student - BSME 2	USTP
Piscos, Eleazer C.	Student-BSME 2	USTP
Malinis, Josiah Anthony L.	Student- BSEE 3	USTP
Mangan, Sairyl Jane B.	Student - BSME 3	USTP
Yañez, Dan Gabriel	Student - BSME 2	USTP
Agcol, Louise Francine T.	Student- BSME 2	USTP
Falguera, Zyl M.	Student	USTP
Saromines, Aljon D.	Student- BSME_3A	USTP
Agbu Lenard Jay S	Student	USTP
Ugsid, Darwin Vincent C.	Student - BSEE3A	USTP



Requina, Peter Allen Sid N.	Student - BSME 4	USTP
Galeon, Ian, R.	Student - BSEE 3	USTP
Salvatierra, Kayl Brian M.	Student – BSME 5	USTP
Fajardo, Lyndy Mae V.	Student - BSEE 4	USTP
Aguilar, James Frederick N.	Student - BSEE 4	USTP
Ending, David James S.	Student – BSME 2	USTP
Layagon, Azelia, P.	Student - BSME 3	USTP
MANCAWAN, BRYAN	Student - BSME 3	USTP
Amatong, Archi P.	Student - BSEE 2	USTP
Solde, Jaya Mae O.	Student - BSEE	USTP
Layagon, Azelia, P.	Student - BSME 3	USTP
Lariosa, Allan Gabriel, A.	Student - BSME 3	USTP
Raiz, Edisa Jane A.	Student-BSME 4	USTP
Dordas, Rey, A.	Student - BSME 1	USTP
Tan, Daniel D.	Student - BSME 3	USTP
Salcedo, Lorenz Gene Y.	Student - BSCE 4	PICE-XUSC
Tinonga, Leo Miguel T.	Student - BSCE 4	PICE-XUSC
Simon, Roven, M.	Student - BSCE 3	PICE-XUSC
Ibaoc, Emerald Joy M.	Student - BSME 1	Webinar Proper
Bustamante, Jun N.	Student - BSME.1	Webinar Proper
Mifrano, Gerwin, Cuarteros	Student- BSME 1	Webinar Proper
Ladao, Joshua Jesh S.	Student - BSME 1	JPSME



Sabulbero, Chelea Neves Peliño	Student - BSCE-5	PICE
Entierro, Jules Ceasar	Student – BSME 1	N/A
Teñoso, Elor John B.	Student - BSME 3	N/A
Acang, Jewel E	Student - BSCE 3	N/A
Ragmac Edilberto Domingo III	Student BSME-1	N/A
Lagrosas, Jardiniere Jay C.	Student - BSME 3	N/A
Gadaga Jay G,	Student - BSME 2	N/A
Lepante, John Claire, Bugtay	Student - BSME-1	N/A
Penales, Marly Shan	Student - BSME 1	N/A
Ambo Rennel C.	Student- BSME 1	N/A
Tangapa, John Adel H.	Student - BSCE 3	N/A
Galleto, Carl Anthony M	Student – BSME 2	N/A
Dael, Rey Rafael N	Student- BSME 2	N/A
Jabonga, July A.	Student - BSME 5	N/A