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ACTIVITY REPORT

ACTIVITY TITLE: **MindaCELLs Clean Energy Webinar Series 4 Renewable Energy**

Technologies: Hydro

DATE: **October 22, 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
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

PARTICIPANTS

- **84 (30.33%)** from ***Xavier University Ateneo de Cagayan;***
- **156 (56.3%)** from ***Capitol University;***
- **134 (37%)** from ***University of Science and Technology of Southern Philippines***

2. OBJECTIVES OF THE ACTIVITY:

- Energy Webinar Series 3
 - Discussion on: “Renewable Energy Technologies: Hydropower Energy”
 - Discussion on: “Determination of the Potential Heads for Hydropower Plants Using Geo-Spatial: A Case Study for the 8 Major River Basins of Mindanao”



3. OUTPUT OF THE ACTIVITY:

Documentation
Attendance

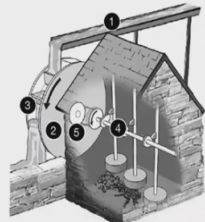
4. HIGHLIGHTS OF THE ACTIVITY

- Engr. Golez was able to discuss the ff;
Fundamentals of Hydropower
The Water Wheel
Hydro Power and Hydro Turbines
Components of Hydro Power Plants
- Engr. Golez was able to deliberate the advantages and disadvantages of Hydro Power
- Engr. Vallente explains about the Principles of Hydro Power, the Conceptual Framework of Hydro Power and its Elevation Head. He talks about its objectives, the significance of the study and the methodology.
- Engr. Vallente showed the data resources of Mindanao presenting the 8 major river basin.

History of Water wheel

2.1 The Waterwheel

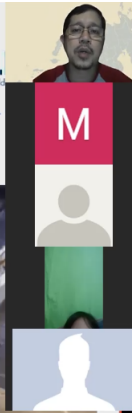
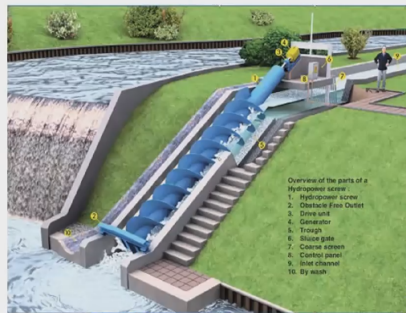
The earliest record of the waterwheel is around 4000BCE. It was used to replace manual labor of humans and animals with the power of water. The water wheel has five main parts: (1) Mill Race, (2) Wheel, (3) Paddle or Bucket, (4) Axle, (5) Belt and Gears.



Logos at the bottom: ASEP, CEL, ATENEO, ATENEO SCHOOL OF GOVERNMENT, ICLEI, Local Governments for Sustainability, Xavier University, UNIVERSITY of SAN CARLOS, Activate Windows.



Archimedeian Screw Hydro Turbine



CONCEPTUAL FRAMEWORK OF HYDRO POWER

$$P = Q \times \gamma H \times E$$

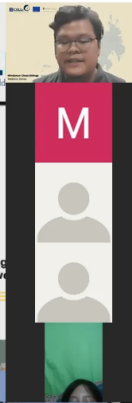
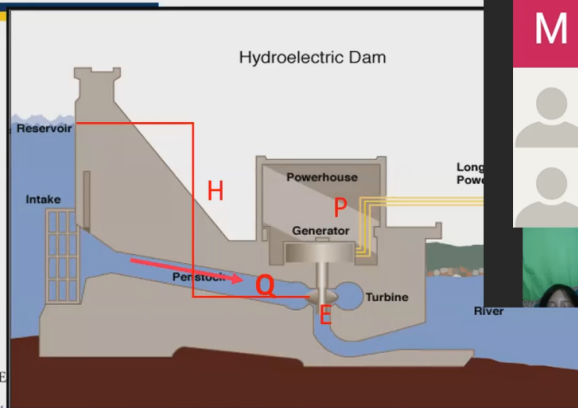
P = Power in KW

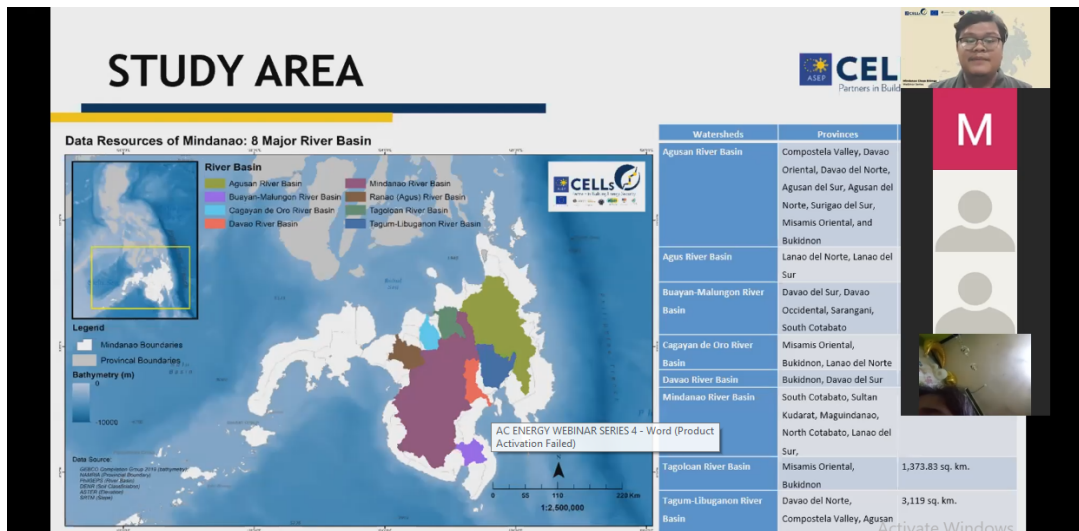
Q = Discharge (m³/s)

γ = Unit Weight (KN/m³)

H = Net Head (m)

E = Overall unit efficiency
(85% to 90%)





Join at
slido.com
#730 462

Top questions (9)

- Anonymous**
Vallente | amongst the various basins present in Mindanao, which place where hydroelectric powerplant is not yet present do you think we should invest next & y
- Anonymous**
does building a dam and/or operating one have a negative effect on the en
- Anonymous**
Do the strength of the water flow matter or is it the turbines that will help in generating energy?
- Anonymous**
What does a hydroelectric powerplant do with excess electricity generated? does it have excess electricity in the first place? Thank you.

Latest question

0 likes

- The participants were given a chance to raise their questions to the speakers by typing their questions to slido.com.

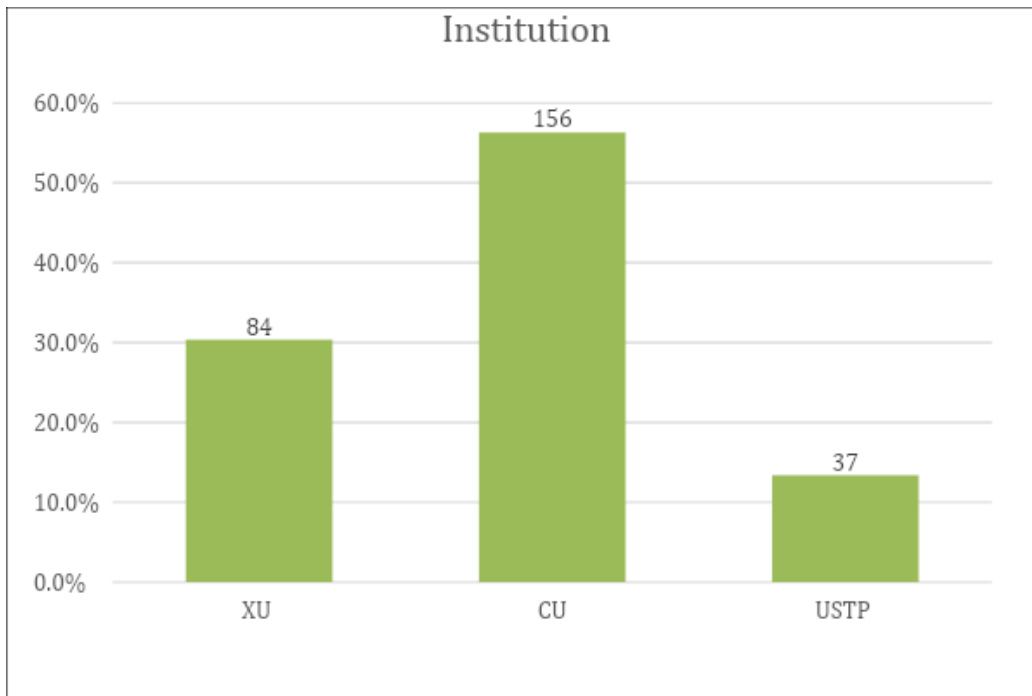


Figure 1 Bar charts of number of students per institutions participated

According to the Chart from the Webinar Series 4 Pre-registration, among the total number of participants -

- **84 (30.33%)** of the participants are from ***Xavier University Ateneo de Cagayan;***
- **156 (56.3%)** of the participants are from ***Capitol University;***
- **13.4 (37%)** of the participants are from ***University of Science and Technology of Southern Philippines***

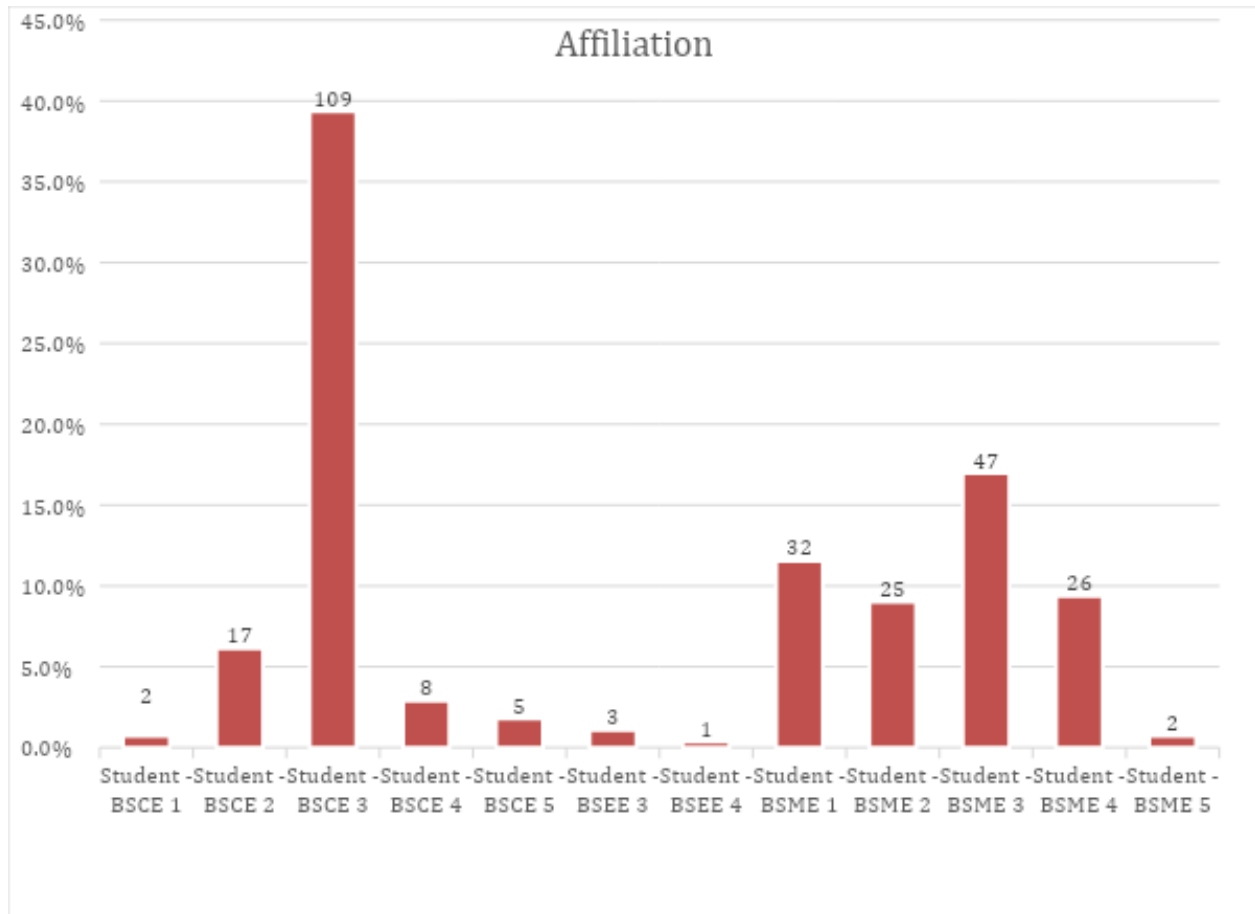


Figure 2 Bar Chart of students per courses and level

Among the total number of participants (277) their affiliation:

- **2 (0.7%)** of the total participants are **BSCE 1 Students**;
- **17 (6.1%)** of the total participants are **BSCE 2 Students**;
- **109 (39.4%)** of the total participants are **BSCE 3 Students**;
- **8 (2.9%)** of the total participants are **BSCE 4 Students**;
- **5 (1.8%)** of the total participants are **BSCE 5 Students**;
- **3 (1.1%)** of the total participants are **BSEE 3 Students**;

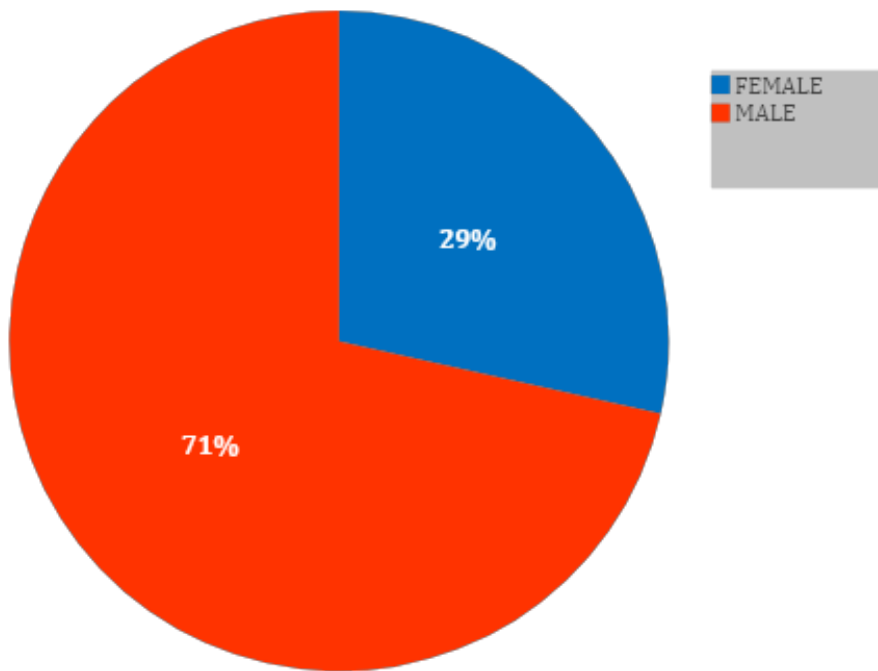


- **1 (0.4%)** of the total participants are **BSEE 4 Student**;
- **32 (11.6%)** of the total participants are **BSME 1 Students**;
- **25 (9.0%)** of the total participants are **BSME 2 Students**;
- **47 (17%)** of the total participants are **BSME 3 Students**;
- **26 (9.4%)** of the total participants are **BSME 4 Students**;
- **2 (0.7%)** of the total participants are **BSME 5 Students**

Among the Participants for Energy Webinar Series 4:

- Most of the participants are male **(71%)**, while **(29%)** of the participants are female.

Gender
277 Responses



5. ISSUES/CHALLENGERS/RECOMMENDATIONS:



Issues/ challenges	Recommendations/ agreements
Students need to encourage in the participation during Q and A portion.	Create innovative ideas on how to increase participation of students

6. NEXT STEPS:

- Preparation for the next webinar series.
- Complete the activity report and documentations

Prepared by:



Leslie C. Tumalak
Admin Assistant

Endorsed by:



Julemer G. Aying
Project Manager

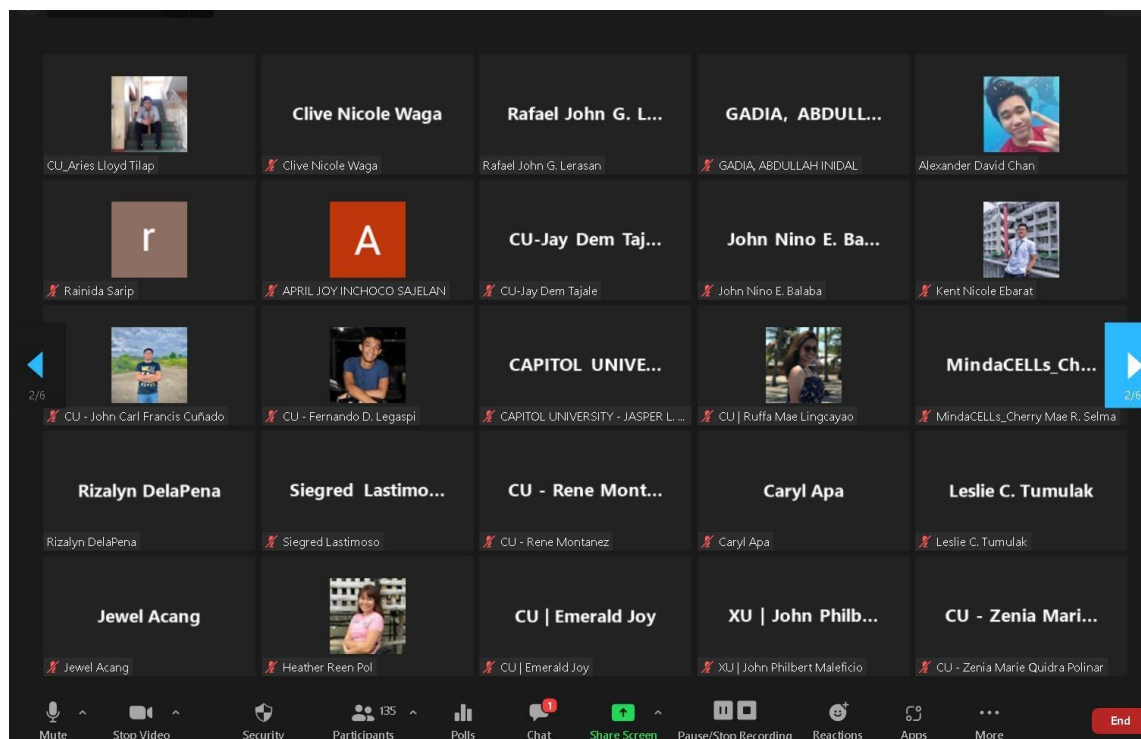
Approved by:



Dr. Rogelio C. Golez Jr.
Project Leader

APPENDICES

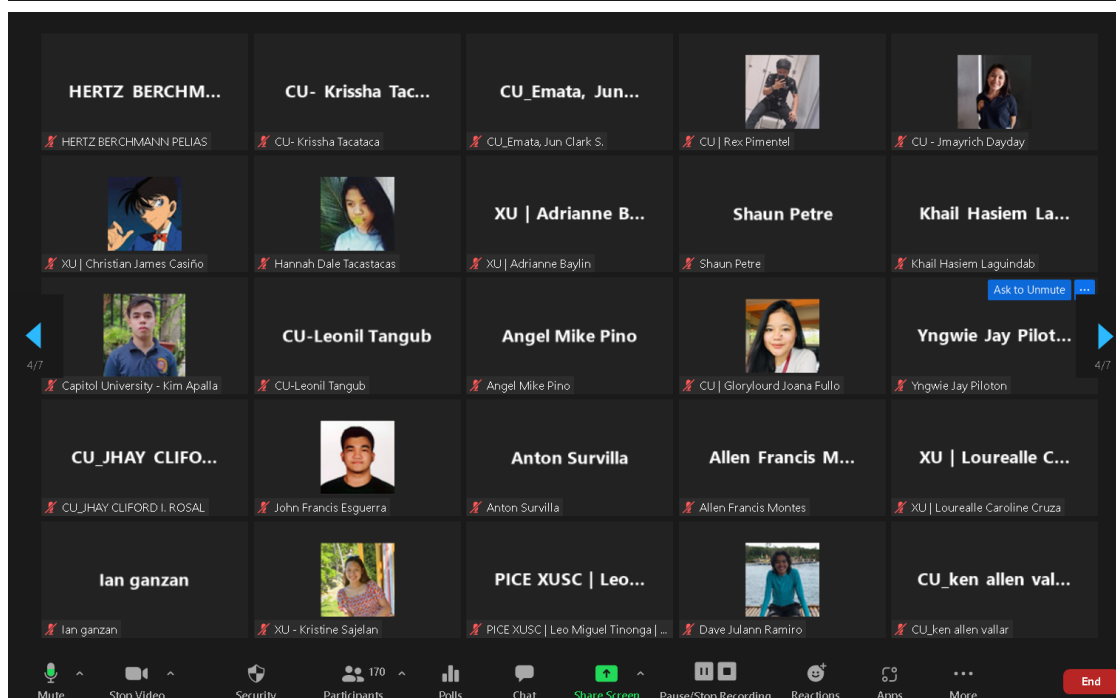
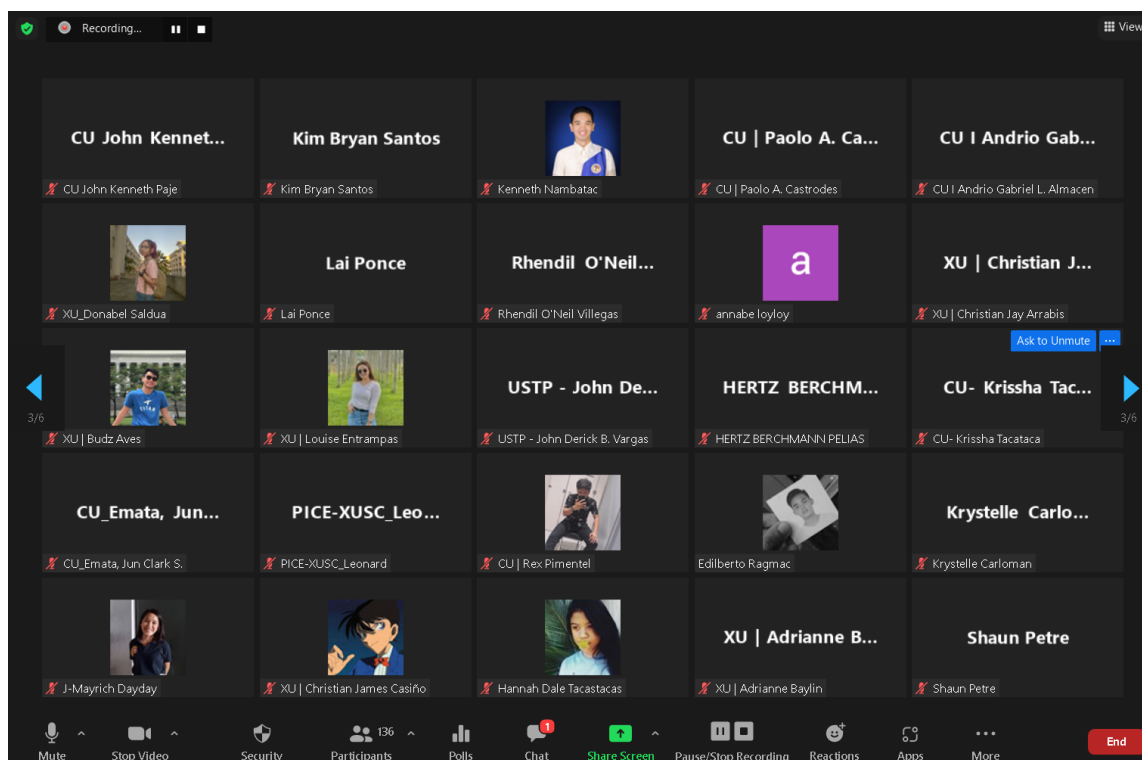
APPENDIX A. Online zoom picture with the participants.





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





NAME	SEX	DESIGNATION	ORGANIZATION
Labor, Earl Patrick Hope Y.	M	Student - BSCE 2	Xavier University - Ateneo de Cagayan
Balo, Aura Menkar, S.	F	Student - BSCE 2	Xavier University - Ateneo de Cagayan
Dehing, Al Vincent G.	M	Student - BSCE 2	Xavier University - Ateneo de Cagayan
Honculada, Karl Francis	M	Student - BSCE 2	Xavier University - Ateneo de Cagayan
Bela-ong, Jannel, C	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Lumantas, Leonore Ellen Rose L.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Rabusa, Leigh Anne Dave S.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Apdua, Marvin G.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Chou, Sean Kyle P.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ramos, Roselle Ann G.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Restauero, Kent Dwight, S	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Velasco, Carmela Denielle A.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Disomimba, Norhailyn D.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Laguindab, Khail Hasiem K.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Evalingelista, Zyril L.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Arrabis, Christian Jay M.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Balasabas, Lyssa Nette E.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Carloman, Krystelle, P.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Aganan, Esther Jelene Y.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Sarraga, Djako Sebastian F.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan



Cruza, Lourealle Caroline V.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Sajelan, Kristine, I.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Chan, Alexander David, G.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Dimaporo, Mohammad Fahad, P.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Guno, Lorenzo Lucas A.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Nambatac, Kenneth C.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Petre, Shaun, C.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Malinis, Beau Bennett L.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Cupay, Joshua Franc, A.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Coso, Caila Isobelle T.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Watamama, Jumanah N.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Rosales, Ivy D.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Entrampas, Mary Louise, U	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Pelias, Hertz Berchmann	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Saldua, Donabel G	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Aves, Budz Louis C.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Robles, Mark Ian Khryslar	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Maleficio, John Philbert, L.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Calunsag, Leonard, B.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Cipriano, Nestor Jr., D.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ponce, Ma. Elizalou V.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Daroy, Kyle Angela B.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Gamale, Jeremy G.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan



Tacang, Cae Roseianne Larks P.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Llena, Angel Shane	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Jungoy, Jeanny Pearl A.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Saliot, Satrianni G.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Daquiado, Mycca, D.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Tacastacas, Hannah Dale L.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Dy, Dridgely Ric, C.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ilisan, Iremarl B.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Osa, Alrhen Jay	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Aguadera, Jila S.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ramiro, Dave Julann, M.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Canubas, Dexter Dave A	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Survilla, Anton, A.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ebarat, Kent Nicole G.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Rabusa, Leigh Anne Dave S.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Baylin, Adrienne Raphael, C.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Sajelan, April Joy I.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Disamburun, Abdul Carim M	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Simon, Roven, M.	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Ragas, Karen Claire B.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Disamburun, Abdul Carim	M	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Acang, Jewel, E.	F	Student - BSCE 3	Xavier University - Ateneo de Cagayan
Alcantara, Leopold Stephen C.	M	Student - BSCE 4	Xavier University - Ateneo de Cagayan



Temple, Sean Mary M.	F	Student - BSCE 4	Xavier University - Ateneo de Cagayan
Go, Joshua James, M.	M	Student - BSCE 4	Xavier University - Ateneo de Cagayan
Tinonga, Leo Miguel T.	M	Student - BSCE 4	Xavier University - Ateneo de Cagayan
Ching, Kate Cloee, B.	F	Student - BSCE 4	Xavier University - Ateneo de Cagayan
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Sabulbero,Chelsea Neves P.	F	Student - BSCE 5	Xavier University - Ateneo de Cagayan
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Egar, Narfred G.	M	Student - BSME 4	Xavier University - Ateneo de Cagayan
Uy, Emil Ian M.	M	Student - BSME 4	Xavier University - Ateneo de Cagayan
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Llesis Jr., Paul, S.	M	Student - BSME 4	Xavier University - Ateneo de Cagayan
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Simene, Sean Edmarcil B.	M	Student - BSME 4	Xavier University - Ateneo de Cagayan
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Reontoy, John Arvydas , A.	M	Student - BSCE 2	Capitol University
Cuaresma, Rhod Mark C.	M	Student - BSCE 2	Capitol University
Santos, Jessa Ruth B.	F	Student - BSCE 2	Capitol University
Gadia, Abdullah I.	F	Student - BSCE 2	Capitol University
Feleciani, Phermel M.	F	Student - BSCE 2	Capitol University
Galitche Maria Evelyn D.	F	Student - BSCE 2	Capitol University
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Hagonao, Clyde G.	F	Student - BSCE 3	Capitol University
Fullo, Glorylourd Joana C.	F	Student - BSCE 3	Capitol University
Delapeña, Rizalyn B.	F	Student - BSCE 3	Capitol University
Castrodes, Paolo A.	M	Student - BSCE 3	Capitol University
Meñoza, Mc Niel John A.	M	Student - BSCE 3	Capitol University
Villaruz, Raye Kris J.	M	Student - BSCE 3	Capitol University
Tangub, Leonil C.	M	Student - BSCE 3	Capitol University
Sarip, Rainida B.	F	Student - BSCE 3	Capitol University
Paragozo, Rachelle Mae B.	F	Student - BSCE 3	Capitol University
Navajo, Cristy Jane N.	F	Student - BSCE 3	Capitol University



Almacen, Andrio Gabriel L.	M	Student - BSCE 3	Capitol University
Pino, Jimmy L.	M	Student - BSCE 3	Capitol University
Lingcayao, Ruffa Mae B.	F	Student - BSCE 3	Capitol University
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Vallar, Ken Allen	M	Student - BSCE 3	Capitol University
Gadia, Abdullah I.	F	Student - BSCE 3	Capitol University
Adante, Dimple M.	F	Student - BSCE 3	Capitol University
Palarca, Mariel B.	F	Student - BSCE 3	Capitol University
Muyco, Tiffany Jel M.	F	Student - BSCE 3	Capitol University
Muit, Daniel Dave L.	M	Student - BSCE 3	Capitol University
Guibone, John Mark I	M	Student - BSCE 3	Capitol University
Nagar, Christopher S.	M	Student - BSCE 3	Capitol University
Palmes, Reza Hanne D.	F	Student - BSCE 3	Capitol University
Requillo, Nyl Vincent R.	M	Student - BSCE 3	Capitol University
Mejorada, Francis Kaye C.	F	Student - BSCE 3	Capitol University
Cajes, Johnlery T.	M	Student - BSCE 3	Capitol University
Rosal, Jhay Clifford, I.	M	Student - BSCE 3	Capitol University
Cena, Diana Rose B.	F	Student - BSCE 3	Capitol University
Sarsalejo, Marsthinie O.	F	Student - BSCE 3	Capitol University
Panhay, Ian Earl L.	M	Student - BSCE 3	Capitol University
Tangapa, John Adel H.	M	Student - BSCE 3	Capitol University
Edol, Justin R.	M	Student - BSCE 3	Capitol University



Amores, Paul Harry B.	M	Student - BSCE 4	Capitol University
Abao, Jessa E.	F	Student - BSCE 4	Capitol University
Maramba, Jefferson V.	M	Student - BSCE 5	Capitol University
Emata, Jun Clark S.	M	Student - BSCE 5	Capitol University
Masing, Marvin N.	M	Student - BSCE 5	Capitol University
Longcob, Joymee D.	F	Student - BSCE 5	Capitol University
Nobleza, William Irvin M.	M	Student - BSME 1	Capitol University
Mancia, Neil Valent O.	M	Student - BSME 1	Capitol University
Morales, Tyron, Bayang	M	Student - BSME 1	Capitol University
Bustamante, Jun N.	M	Student - BSME 1	Capitol University
Polinar, Zenia Marie Quidra	F	Student - BSME 1	Capitol University
Ubagan, Michael John	M	Student - BSME 1	Capitol University
Ambo, Rennel C.	M	Student - BSME 1	Capitol University
Ibaoc, Emerald Joy M.	F	Student - BSME 1	Capitol University
Ravidas Jose Allan Jr, C.	M	Student - BSME 1	Capitol University
Waga, Clive Nicole, E	F	Student - BSME 1	Capitol University
Duterte, Gian Dave M.	M	Student - BSME 1	Capitol University
Mifrano, Gerwin Cuarteros	M	Student - BSME 1	Capitol University
Silvera, Justin Earl	M	Student - BSME 1	Capitol University
Obsioma, Kim N.	M	Student - BSME 1	Capitol University
Sumaylo, Clarence S.	M	Student - BSME 1	Capitol University
Econar Iairjalee Vrich D	F	Student - BSME 1	Capitol University
Babtilan Alexzan A.	F	Student - BSME 1	Capitol University



Lepante, John Claire, B	F	Student - BSME 1	Capitol University
Zambas, Mark Joniel, Bacus	M	Student - BSME 1	Capitol University
Galanta, Joederey B.	M	Student - BSME 1	Capitol University
Ragmac Edilberto D III	M	Student - BSME 1	Capitol University
Malana, Joforce Kar Fredrich, D.	M	Student - BSME 2	Capitol University
Pimentel II, Rex, D.	M	Student - BSME 2	Capitol University
Monsanto, Bryan, L.	M	Student - BSME 2	Capitol University
Pilaton, Yngwie Jay P.	M	Student - BSME 2	Capitol University
Fletcher Karl B. Banawan	M	Student - BSME 2	Capitol University
Agir, Kiderson L.	M	Student - BSME 2	Capitol University
Ragmac, Vincent Paul I.	M	Student - BSME 2	Capitol University
Tajale, Jay Dem L.	M	Student - BSME 2	Capitol University
Llami, Jasper, Lonon	M	Student - BSME 2	Capitol University
Pajaron, Alixus Dann A.	M	Student - BSME 2	Capitol University
MalFerrari, Erick Nash A.	M	Student - BSME 2	Capitol University
Esguerra, John Francis U.	M	Student - BSME 2	Capitol University
Omictin, Darwin G.	M	Student - BSME 2	Capitol University
Enlawan, Meiji Imri M.	F	Student - BSME 2	Capitol University
Tilap Aries Lloyd Tao-on	M	Student - BSME 2	Capitol University
Dalit, Armito III	M	Student - BSME 2	Capitol University
Calimutan, Gabriel Matthew S.	M	Student - BSME 2	Capitol University
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