



**CE4214 Hydrology**

Engr. Reynaldo P Ramos, PhD

**ASSIGNMENT #1**

**DUE DATE: SUBMIT YOUR NOTEBOOKS ON 05 DECEMBER 2018**

1. Answers for the following questions will be written in the notebook. It will be checked and graded.
  1. What are the different forms/types of precipitation? Differentiate each.
  2. What are the climate classifications in the Philippines? Describe each.
  3. Visit the website of PAGASA: Philippine Atmospheric, Geophysical and Astronomical Services Administration, particularly this link: <https://www1.pagasa.dost.gov.ph/#information>

Read the following topics as follows:

- [Tropical Cyclone Information](https://www1.pagasa.dost.gov.ph/index.php/learning-tools/94-weather/479-tropical-cyclones) :  
<https://www1.pagasa.dost.gov.ph/index.php/learning-tools/94-weather/479-tropical-cyclones>
- [Rainfall and thunderstorm Warning System](https://www1.pagasa.dost.gov.ph/index.php/20-weather/29-rainfall-warnings)  
<https://www1.pagasa.dost.gov.ph/index.php/20-weather/29-rainfall-warnings>

Answer the following questions:

- a. What is a tropical cyclone?
- b. What are the classification of tropical cyclone and how they are classified?
- c. What are the primary configurations of a tropical cyclone?
- d. How would you know that a tropical cyclone is coming? Or what the requirements for their occurrence?
- e. What are the effects of a tropical cyclone?
- f. What are the rainfall warnings and thunderstorm warnings?

**ASSIGNMENT #2**

**DUE DATE: 12 DECEMBER 2018**

**2. THE WATER CYCLE/ HYDROLOGIC CYCLE**

With your creativeness, draw or sketch the water cycle or hydrologic cycle. Label the major stages or processes. Do not copy from internet, but improve it by incorporating 2 or more reference materials in your drawing. You can use coloring pencils or crayons to emphasize the components of the cycle. USE A 1/8 SIZE (THE SMALLEST CUT) OF ILLUSTRATION BOARD.