Fluid Mechanics

Assignment II

by
Dr. Nor Azlina binti Alias
Faculty of Civil and Earth Resources Engineering
azlina@ump.edu.my

Assignment I

QUESTION	CO	COURSE OBJECTIVES	TOTAL MARKS
1-2	CO3	Apply Fluid Mechanics theories such as Bernoulli's Theorem , Continuity Equation, Darcy-Weisbach Equation and Reynold's Number in Fluid Mechanics system.	50
3-4	CO4	Demonstrate the pipeline systems as related to civil engineering.	50
		TOTAL	100

Assignment II

- Listed below are the working area for assigned for each group:
  - The Chancellery Building
  - The KPU Building
  - The 3rd Residential College
  - The Library Building

Question 1

- Get the average rate of flow from the whole building.
- Considering the total numbers of people in the building; day and night which appropriate, estimate the daily water consumption and estimate the total outflow of each building.

Question 2

Arrange your own pipe network for the groundfloor of the building, hence :

- Provide the engineering drawing complete with the materials, dimension etc.
- Tabulate the flow capacity of each pipe.

- Write a brief report (10 page max; 1.5 spacing) that:
  - Includes photos of you running your works/experiments.
  - Describes how the data collection was run.
  - Includes diagrams showing what you measured.
  - Presents the theory and equations you used in your calculations.