

ENVE 2004
EXPERIMENTAL DESIGN PROJECT I
(Spring 2018)

Deadline of the project : 05/3/2018 (Thursday)

Design an experiment to obtain a relation between energy of the fluid and flow rate in a gravitational flow system. Describe your experimental set-up and draw a figure of it. Name all the points which will be used in the energy equation.

Your experimental design report should include:

- * Theoretical background supporting your experimental design.
- * Detailed description of the experimental set-up including dimensions of the equipment to be used (pipe, tank etc.) and their elevations.
- * Indication of the points where the necessary measurement(s) will be applied.
- * Detailed procedure for the measurement(s).
- * Data table(s) to be used in the experiment and all the formula necessary for calculations.

Hint: The system will be based on the gravitational flow, hence there will be no pump in the experimental set-up.