FC-CIV HIDRCANA: Channel Hydraulics

Introduction

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Main Topics

• Open channel flow
• Specific Energy and critical depth
• Gradually varied flow
• Hydraulic jump
• Flow in Pipes
• Pipelines
• Pipe networks
• Water pumps
Text Book


- Other References:
  - Open-Channel Hydraulics, Ven Te Chow , The Blackburn Press, 2009
Campus Virtual

• All class material and announcements will be posted on campus virtual [http://campusvirtual.usil.edu.pe/index.php](http://campusvirtual.usil.edu.pe/index.php), Universidad San Ignacio de Loyola.

• Syllabus

• Lectures notes

• Homework assignments

• Messages

• Class policies

• Also some information will be posted on [www.eusebioingolb.weebly.com](http://www.eusebioingolb.weebly.com)
Teaching Philosophy

• My goal as teacher is to promote the learning and critical thinking of my students.

• Stimulating the interest and learning through linking research materials, wide knowledge of the topic, and experience to the student’s knowledge.

• I will promote to my students three common aspects to facilitate the thinking and learning of a problem: problem identification, components, and solution methods.
Teaching Philosophy

• I will organize my classes as lectures using the chalkboard and power point presentation.

• In each class, I will use 3-5 minutes to make a summary of previous class. All lectures will be provided to students in pdf format and published on Campus Virtual.

• Depend on the subject; I will promote the discussion in groups for 2-5 minutes to address questions. I think that it will stimulate the thinking during the lecture, increasing the student participation.
Teaching Philosophy

• I would apply **weekly or bi-weekly homework assignments** to consolidate the material discussed in class. Also oral presentations

• Midterm and final exams are essential for measure the level of the class.

• I will promote regularly feedbacks about the course in order to improve it.
Evaluation System

- Continuous Evaluation (50%)
  - 2 Tests (week 4 and 12)
  - 4 Homework
- Midterm Exam (25%)
- Final Exam (25%)
Homework

• One of the best ways to learn something is through practice and repetition
• Therefore, homework assignments are extremely important in this course
• Homework sets will be carefully designed in a way comprehensive. If you study and understand the homework, you will solve the tests and exams quickly and easily
Homework Policy

- Homework is due on Wednesday at the beginning of class.
- Homework turned in late will receive partial credit according to the following rules:
  - 10% off if turned in after class, but before 6:00 pm on the due date
  - 25% off if turned in after 6:00 on the due date, but by 5:00 the next school day
  - 50% off if turned in after 6:00 the next school day, but within one week
  - No credit if turned in after one week
Homework Policy

- Exceptions will be made under extreme circumstances.
- Solutions will be made available within a week after the due date.
- **Students are allowed and encouraged to work in groups of two or three on the homework assignments,** provided that each person in the group is contributing to each solution. Only one completed assignment needs to be turned in per group. All students in a group will receive the same grade for that assignment.
General Rules

- You can not take the final exam if you have a number of absences greater than or equal to 30 % of academic hours.
- You cannot enter to classroom after 10 minutes delay.
- The student will be subject to regulation studies of USIL.
- Do not allow the use of cell phones, radios, etc.., in the classroom.
- Food, beverages, chewing gum, and cigarettes are not allowed in the classroom.
- Respect each other as a fundamental value.