

# DOWNLOAD PDF HYDRAULIC LAB MANUAL FOR DIPLOMA CIVIL ENGINEERING

## Chapter 1 : hydraulic engineering lab manual scribd

*PREFACE This laboratory manual is prepared by the department of civil engineering, MCET for Hydraulic Engineering Laboratory. The purpose of this manual is to serve as an.*

Conservation of Linear Momentum Head Losses in Pipes Lab chapters are subject to change. For example, mechanical engineers can use the concepts of fluid viscosity to develop lubricants and chemical engineers can use the concepts of mass transfer continuity when examining unit processes. Of course, civil engineers frequently use concepts related to fluid mechanics to help in designing public works and other infrastructure where water is the fluid of interest. The purpose of having students perform experiments in a laboratory setting is multifold. Secondly lab experiments provide students with the opportunity to use equipment that they may also use when they are practicing professionals. Thirdly, taking measurements in the laboratory will invariably involve measurement error. Thus the lab exposes the students to measurement error and how that error can be understood so that later it may be addressed or minimized. Finally students are exposed to computer solution techniques as they must use software packages to complete their lab assignments. Generally speaking the findings from a lab experiment are presented in the form of a lab report. For this class, one purpose of the lab report is to introduce the student to technical writing. This is not necessary!! When writing lab reports, it is much more important to be brief and to the point. Fewer words, when they make the point, are better!! The student should always keep these requirements in mind when writing a report. More is not necessarily better - so please choose your words judiciously. All reports shall be completed with the use of a word processor and other software available to the student such as spreadsheets, Matlab, etc. Every lab report will include the following parts in the order listed: A sample cover sheet is furnished in the Hydraulics Lab manual. A cover sheet shall be used for all lab reports. The table of contents should include major items in the report and the page number of the major items in a tabular form. The objective should be a brief one or two sentence summary indicating the content and scope of the lab experiment. Every report must include a statement of the results. The primary purpose of the discussion is to explain why any deviations from expected or published values exist. In other words, what is the primary source of error and why did it occur. The discussion section shall be limited to no more than two pages. This section should include a brief summary of the experiment and list the primary sources of error or deviations in the experiment. Also the student should supply any recommendations on how the results can be improved. Conclusions shall be limited to no more than one and one half pages. Any references used in the lab reports should be included with every report. The appendix shall contain the original or a copy of the original data sheet and shall contain any sample calculations. An original or photocopy of the data sheet as taken in the laboratory and initialized by the instructor or lab assistant. This data sheet shall contain only raw data obtained in the laboratory and should be presented in tabular format where appropriate. A single example of each unique calculation shall be provided in this section. Sample calculations shall be provided for each unique calculation regardless of the complexity or simplicity of the calculation. Independent and dependent variables should be defined for all equations where appropriate. Grading System Lab reports shall be an individual effort. Each lab report will be worth one hundred and sixty points and should include the following: Cover sheet 2 2. Table of contents 3 3. Data sheet 5 5. Sample Calculations 25 9. Results and Graphs 15 Technical Writing 50 Total The course grade includes: The grading scale shown below has been adopted throughout the CEE Department. If you feel that a grading mistake has been made on lab reports, please notify the instructor so that the problem can be addressed. The primary purpose of the Discussion section is to explain any deviation in results from expected values. The primary purpose of the Conclusion section is to summarize the findings and to recommend ways to improve the experimental results. Explain sources of experimental error and be specific when explaining potential sources of error. Inaccurate measurements could have led to inaccurate experimental results. Better, more specific explanation: Therefore, experimental length measurements were limited by the precision of the scale.

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Errors in capillary rise could have resulted from dirt. Using dirty glass plates and tubes could contribute to errors in capillary rise because angles water makes with the glass cannot be assumed to be zero. For sources of error, one must include a statement of how the error can affect the lab results. Use transitions to connect your ideas and make your explanations logical and coherent. Always write in the third person. I took the measurements 2nd Person: We took the measurements 3rd Person: The group took the measurements 7. Usually it is best write using active voice. Passive voice is not as powerful and forceful as active voice. There are some instances though when use of passive voice is acceptable. Exercise care when using passive voice. Keep sentences simple and direct. Be careful of sentence structure, grammar and mechanics. The purpose of the following Four-Step Process is to have you demonstrate recognition and understanding of a standard and acceptable norm of grammar, usage or mechanics GUM in an area that needs strengthening or changing in a report that you have written. Such deviations from the norm distract, slow down, or confuse the reader of your report. Places where you can improve are encircled on your report with a code letter and number in the margin. The source for finding the code letter and number along with an explanation and a few examples of the norm is the Little Brown Handbook by Fowler and Aaron. Your response should be made using the following Four-Step Process: Type of the sentence in your report in which some part has been encircled. The payload for the test and the rocket are 25, gallons of water. Write the number and letter and brief description of the instructor referral indicated in your report. Make the verb agree with its subject. Write your understanding of what needs to be done. The payload for the test and the rocket is 25, gallons of water. Jubilation was felt by all, but more poignantly by those who had worked hard to achieve their goal. The Grammar, Usage, Mechanics GUM score for each lab report accounts for 50 of the total points according to the following scale: I Your written response to the Four-Step Process is optional. If you do the Four-Step Process for a given report, your GUM grade will revert to the full credit for that particular report. J Please note that any written response is due at the same time that you hand in a lab report a week later, i. Be sure to put your name and the lab report number and title on your response sheet. Also, be sure to submit the appropriate lab report with each Four-Step Process. The reports are due on the day that the lab is performed and are worth 20 points each. A report should be a brief summary of the assigned topic and should be at least one page double spaced. References are to be included. No library report needed for Lab 1 2. Calibration of flow meters 5. Calibration of the channel 6. Losses in pipes 8. Critical flow open channel

## Chapter 2 : indian material testing lab manual for civil engineering pdf

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## Chapter 3 : Lab Manual (Hydraulics Engineering) - [PDF Document]

*Hydraulic jump will be formed over the glaces of hydraulic structure as shown in the figure and it will be weak jump/Submerged [blog.quintoapp.com](http://blog.quintoapp.com)LICS ENGINEERING LAB MANUAL LOCATIONOF HYDRAULIC JUMP Location of hydraulic jump is governed by two factors.*

## Chapter 4 : Jackson State University | Civil and Environmental Engineering | Hydraulics Lab

*Lab Manual (Hydraulics Engineering) Home; Documents; Lab Manual (Hydraulics Engineering).*

## Chapter 5 : Lab Manual Hydraulics - [PDF Document]

*It is a Lab Manual on Hydraulics for Civil Engineering Students based on Tribhuvan University Syllabus.*