

**PHYSICS LAB  
PHYSICS 180L  
FALL -2011**

Instructor : **MADHU GYAWALI**  
Office : LP Building, 4<sup>th</sup> floor  
Office hour : Wednesday: 3:30 -4:30 PM (and by appointment)  
E-mail is recommended.  
Mail box : LP building 2<sup>nd</sup> floor.  
E-mail : **gyawaling@yahoo.com**  
Lab meeting time : Wednesday, 5PM-7PM, Thursday, 3PM-5PM, 5PM-7PM

Lab manuals webpage: <http://www.physics.unr.edu/Labs.html>

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**A. Course description and objective.**

The purpose of the physics laboratory is to allow students to witness the concepts and physical laws that are introduced in lecture. You will also be exposed to elementary laboratory techniques. Every class will have a short lecture introducing the procedures, concepts, formulas and instructions relevant to the experiment. The lecture will also cover what is expected from you and how to write-up your lab-report, please don't be late. Attendance and participation is expected. Experiments will be performed in groups however final lab-reports have to be written-up individually.

**B. Course Requirements:**

1. Attendance:

You are required to attend all the classes. You **cannot turn in** lab report for those labs in which you were **not** present. By department rules, if you miss three or more classes you do not pass the class. There are total 11 labs in this section and out of which the **best ten** lab reports will determine your final grade. There will be one makeup lab given at the end of the semester. Do not forget to **sign-in** at the beginning of each lab.

2. Lab Reports:

You are expected to read the lab manuals thoroughly before coming to class. This will help you perform the experiment as well as it reflects how serious you are for your lab classes. The lab reports are due on following class period at the beginning of each class.

Each report should be typed and free from grammatical and spelling errors. If you do not have computer, you can use computer lab located at 2<sup>nd</sup> floor of Physics building. Neatly hand -written reports are also accepted.

For lab report, please use the format that is given on lab manual. Please follow the format precisely. You should turn in a graph, if required, on graph paper. Further you are advised not to copy from the lab manual, but write report on the basis of class lecture and your understanding of the experiment (especially theory and results/discussions part). You **should** obtain the signature

of TA on your data page to verify your results after finishing each experiment and before leaving the lab.

### C. Grading of Lab Report:

Each lab report is worth 50 points (otherwise stated) which is divided as follows:

Title	1 point
Abstract	5 point
Theory	10 points
Data	8 points
Analysis	14 points
Results/conclusions	12 point
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Total	50 points

Late lab report -Labs are due the following week. There is a one day grace period after which the grade is docked 20%. You must get your report stamped from physics office before putting it in TA's mail box. The grade will be docked an additional 10% for each week the lab is late.

For detail grading scheme please go through the distributed lab rubric.

### **Remember:**

**Graphs are always important; you need to show your results with plot, if it's applicable.**  
**See closely on the lab manual if you have to answer the questions.**

### D. Laboratory Rules:

1. No eating or drinking in the lab (water is ok).
2. If anything is broken please inform TA immediately.
3. If anything looks hazardous please inform the TA.
4. Make sure you turnoff all the equipment and disconnect all wires and cables before you leave the laboratory.
5. Try to keep the lab clean and equipment in working condition.
6. **PLEASE**, turn off your cell phones during class!—strictly!

### E. Disability statement:

The college will make reasonable accommodations for people with learning disabilities. Students can be tested or may already know about their learning disability. Please contact the Disability Resource Center in the Thomson Building Room 107. Please let me know within the first two weeks so we can arrange special accommodation for you. All discussions will remain confidential.

Have a productive semester.

