GEORGE MASON UNIVERSITY
ECE 334-Linear Electronics I Lab
Spring 2010

GuruPrasad Rao K
email: grao2@gmu.edu
Mailbox: ENGR 3213
Section 201: Monday, 9:30 am - 12:20 pm
(ENGR 3203)
Office: ENGR 3505
Office Hours: Friday: 1:00pm-4:00pm
Saturday: 1:00pm-2:00pm

Hamid Charkhkar
email: hcharkhk@gmu.edu
Mailbox: ENGR 3213
Section 202: Wednesday, 12:30pm-3:20pm
(ENGR 3505)
Section 203: Thursday, 9:00am-11:50am
(ENGR 3505)
Office: ENGR 3505
Office Hours: Monday: 10:00am-11:00am
Thursday: 2:00pm-5:00pm

POLICIES

• The George Mason University Honor code applies to all aspects of this course.

• Attendance at all labs and exams is mandatory. Notify your TA by email in advance if you must miss a lab. You have to come to the next TA’s office hour and work on your missed experiment.

• If you miss an exam for an unexcused reason, you will NOT be given a make up time.

• As stated in the lab manual, it is important that each student does the advance preparation before coming to the lab.

• Each student will work with a partner to complete the experiment, wherein each partner works on the experiment equally.

• Students must show the complete operating circuit in lab in order to receive credit for the experiment. TA will then sign and date your experiment pages at that time.

• Experiment demonstrations are due no later than beginning of the lab one week after assigned.

• Lab reports must be written and submitted individually in hard copy at the beginning of the next lab.

• Points are allotted to each lab report. Late submission of a report will be penalized by 25% per week. After four weeks they will not be accepted.
- No lab reports will be accepted after the start time of your final exam.
- Lab reports must be legible. Carefully follow the **lab report guide** in your lab manual.
- **Grading policy**: If you pass all your experiment demonstrations, your lab grade will be determined by the following criteria:
  
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<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Lab reports</td>
<td>20%</td>
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<tr>
<td>Midterm</td>
<td>30%</td>
</tr>
<tr>
<td>Final</td>
<td>35%</td>
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<td>Attendance</td>
<td>7%</td>
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<tr>
<td>Lab Participation and Conduct</td>
<td>8%</td>
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- Tentatively your midterm will be on First week of the March, 2010 and final exam will be on the last week of the April, 2010. This is subject to change due to extenuating circumstances.

**GOOD LUCK, ENJOY THE LAB AND SEMESTER**
# Experiment # | Experiment | Week number | Date       
-------------|------------|-------------|------------
1            | Introduction | 1           | 01/25/2010 
2            | Lab 1 Examining an R-C Low Pass filter | 2           | 02/01/2010 
3            | Lab 2 Diode Characteristics | 3           | 02/08/2010 
4            | Lab 3 Rectifiers and Voltage Doublers | 4           | 02/15/2010 
5            | Lab 4 Testing the LM741 Basic Operational Amplifier Circuits | 5           | 02/22/2010 
6            | Lab 5 More Operational Amplifier Circuits | 6           | 03/01/2010 

**Spring Break (No class on 3/08/2010)**

7            | Midterm | 8           | 03/15/2010 
8            | Lab 6 MOSFET Curves/Amplifier | 9           | 03/22/2010 
9            | Lab 7 BJT Characteristics and Biasing | 10          | 03/29/2010 
10           | Lab 8 Common Emitter Amplifiers | 11          | 04/05/2010 
11           | Lab 9 Switching and Saturation | 12          | 04/12/2010 
12           | Lab 10 Audio Power Operational Amplifier | 13          | 04/19/2010 
13           | Review | 14          | 04/26/2010 
14.          | Final Exam | 15          | 05/03/2010 

# Experiment # | Experiment Description | Week number | Date       
--- | --- | --- | --- 
1. | Introduction | 1 | 01/20/2010 
2. | Lab 1 Examining an R-C Low Pass filter | 2 | 01/27/2010 
3. | Lab 2 Diode Characteristics | 3 | 02/03/2010 
4. | Lab 3 Rectifiers and Voltage Doublers | 4 | 02/10/2010 
5. | Lab 4 Testing the LM741 Basic Operational Amplifier Circuits | 5 | 02/17/2010 
6. | Lab 5 More Operational Amplifier Circuits | 6 | 02/24/2010 
7. | Midterm | 7 | 03/03/2010 

Spring Break (No class on 3/10/2010)

8. | Lab 6 MOSFET Curves/Amplifier | 9 | 03/17/2010 
9. | Lab 7 BJT Characteristics and Biasing | 10 | 03/24/2010 
10. | Lab 8 Common Emitter Amplifiers | 11 | 03/31/2010 
11. | Lab 9 Switching and Saturation | 12 | 04/07/2010 
12. | Lab 10 Audio Power Operational Amplifier | 13 | 04/14/2010 
13. | Review | 14 | 04/21/2010 
14. | Final Exam | 15 | 04/28/2010
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<td>6</td>
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Spring Break (No class on 3/11/2010)

| 8  | Lab 6 MOSFET Curves/Amplifier                                    | 9           | 03/18/2010    |
| 9  | Lab 7 BJT Characteristics and Biasing                            | 10          | 03/25/2010    |
| 10 | Lab 8 Common Emitter Amplifiers                                  | 11          | 04/01/2010    |
| 11 | Lab 9 Switching and Saturation                                   | 12          | 04/08/2010    |
| 12 | Lab 10 Audio Power Operational Amplifier                         | 13          | 04/15/2010    |
| 13 | Review                                                           | 14          | 04/22/2010    |
| 14 | Final Exam                                                       | 15          | 04/29/2010    |