Lab Instructor:

Nikita Charankar  
ST-II, Room 265, ncharank@gmu.edu  
Office hours: Wednesday and Thursday, 3:00-5:00 PM

Textbooks:


Goals: To supplement the theoretical work with hands-on laboratory exercises using MATLAB.

Laboratory Work:

Laboratory, one 110 minute session per week.

6 Laboratory assignments, 6 Quizzes.

Lab Grade:

70% Lab Assignment, 30% Quiz, Lab assignments and quizzes will be graded together. The final grade will count 30% towards the course grade.

Lab Projects:

1. Basic signals and signal manipulations.  
2. Convolution.  
3. Analysis of first order systems.  
4. Analysis of second order systems.  
5. Periodic signals, Fourier series.  

The project will be assigned at two-week intervals. Students will have two full lab sessions to work on each project. The lab report on each project is due at the beginning of the lab session following the second session dedicated to the particular project. At the
same time, a quiz will be given on the subject of the report just turned in.

**Dates**

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<th>Assigned</th>
<th>First Lab</th>
<th>Second Lab</th>
<th>Report/Quiz</th>
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<td>Project 1</td>
<td>Aug 25</td>
<td>Sep 08</td>
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<td>Project 6</td>
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**Guidelines for Lab Report:**

*Lab work is to be done individually.*

Your report should contain the plots and code, plus your answers to the various questions and other observations you want to make. You are allowed to discuss the project with fellow students and staff but the lab report must reflect your individual work. Copying code or any part of the report will be considered an honor code violation.