**EE15n Assignments and Deadlines: Winter 2019**

**Reading Assignments:**

Lecture 1 (1/9): Text, Chapter 1 (Introduction to Engineering Design)
Lecture 2 (1/16): Text, Chapter 2 (The Design Process)
Lecture 3 (1/23): Text, Chapter 15-16. (Design Teams and Management)
Lecture 4 (1/30): Text, Chapters 3-4. (Problem Definition: Requirements and Objectives)
Lecture 5 (2/6): Text, Chapters 5-6. (Problem Definition: Constraints and Design Specs)
Lecture 6 (2/13): Text, Chapter 7, 8, and 14 (Generating Design Ideas and Choosing a Design)
Lecture 7 (2/20): Posted Articles (Why Things Fail)
Lecture 8 (2/27): Text, Chapters 9-11 (Communicating the Design and Prototyping)
Lecture 9 (3/6): Posted Articles (Engineering Products that have Changed the World.)
Lecture 10 (3/13): Posted Articles (Wrapping up and Looking Ahead: Beyond the 1st Generation)

**Project presentations:** March 21 3:30-6:30 (Final Report due 3:30 March 21)

**Project-based assignments and deadlines**

<table>
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<th>Deadline</th>
<th>Assignment</th>
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<tr>
<td>Weekly</td>
<td>Notes from project meetings (starting 1/30)</td>
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<td>Jan 23:</td>
<td>Form team, Choose project (1 paragraph Problem Statement – i.e. a description of the problem that your project will solve - due by email at midnight). The problem statement should be of appropriate scope, be specific, and should not include the solution in the problem description.</td>
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| Feb 6:      | Revised Problem Statement
  
  Preliminary list of project roles and tasks (and who assigned to them)
  
  Objective tree for your project |
| Feb 20:     | Morphological Chart. Set of team member sketches for the Gallery Method.    |
Mar 6: Detailed Design:
Detailed description/block diagram(s), Schedule, Cost Estimate
Prototype/model/proof of concept description (Optional)

Mar 13: In-class Presentation

Mar 21: Final Presentation and Report Deadline (3:30pm)

Writing assignments

Please choose one of the following options for each of your two writing assignments. The paper should be around 4-5 pages (double-spaced) without references. You must include multiple references that support the claims in your report and from which any quotes are taken.

- A report on how society shapes technology or vice versa (e.g. stem cell research, cell phones, nuclear power, the Internet, Twitter)
- A case study of a complex engineering project (e.g. the IPhone, Facebook, the space shuttle, the power grid, MRIs, electric cars.)
- Describe in more detail an engineering project executed by one of our guest speakers
- Chose your own topic related to engineering project design

Deadline | Assignment
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Jan. 30 | 1st writing assignment
Feb. 27 | 2nd writing assignment

Late Policy on All Assignments
1st Day Late: 10% off, 2nd Day Late: 25% off, 3rd Day Late: 50% Off, No Credit Thereafter.