

meng 293 – Project Management & Social Responsibility

Project 1 – A Warm Up

1. Review 'design process' in the course notes.
We will chat about each step in class.
2. Form into groups of 2 or 3.
3. Do the following Exercises.

There is a small thing to realize about this course.

As 'design' is a major part of this course and 'design' is primarily experiential I feel compelled to make the following stipulations ...

- Late or incomplete work will not be accepted.
- You must attend each lab in order to receive marks for that lab (unless you have made prior arrangements).

Exercise 1 (due in-class)

You and your group will be given a simple description of something to design.

Follow each of the steps of the 'design process' and see what solution(s) you can come up with.

Present to the class:

- your list of ideas; and,
- the ideas that remain after you have gone through your preliminary selection process.

Exercise 2 (due at the start of the next lab class)

You and your group will be given a description of a more complex object to develop.

Your task is to develop this in two distinctly different ways.

- Way 1
Develop the idea to be 'sustainable' and user-friendly. That is, to design it so that it can be made from environmentally friendly materials and those that can be entirely recycled and completely reused. Also, consider the user and work to make that person's product experience a positive one.
- Way 2
Develop the idea in a 'traditional' manner where the environmental impact of its design is ignored and the usability of the product takes a back-seat to the idea of minimizing the cost of manufacture and maximizing profit.

In both cases follow the design procedure and carefully and informally document what you do.

In next week's lab class, you will be asked to present your ideas and submit your short report.

The report should consist of a description of what you did to fulfil each step in the design process.

Handwritten notes and sketches are fine. For each sketch provide a brief title and very short description so that the reader can gain some understanding of what motivated this instance of the idea.