



GE105
Introduction to Engineering Design
College of Engineering
King Saud University

Studio 7.

Practicing Problem Formulation

SPRING 2016

Formulating your Final Design Project

- Today's activity is what you will be presenting orally **next week (for 10mn each group)**; so do it right!
- Your 2nd oral presentation next week must include a complete problem formulation:
 - ✓ Well chosen descriptive title
 - ✓ Need analysis
 - ✓ SMART objectives
 - ✓ Constraints
 - ✓ Criteria
 - ✓ Human factors

Today's Activity (Part one: 45 minutes)

- Perform a group discussion with your team members to formulate your final design project
- Start with we will design-----to do -----
- Choose a good title (up to 10 words)
- Answer the following questions: What? How? Why?
- Draw the objectives tree
- Assess needs
- Identify at least one primary objective
- Identify at least one secondary objective
- Identify at least 4 constraints and 4 criteria
- Identify human factors issues in your design

Today's Activity (Part Two: 30 minutes)

- Each group reads out the results of their discussion
- Other groups are expected to criticize/evaluate