

King Saud University

College of Engineering

GE 105: **Introduction to Engineering Design**

Due: Tuesday, July 19, 2016

Tutorial 3

Need Analysis, Objectives, Criteria, and Constraints

Identify the potential (possible) market, establish customer needs, and then set up design objectives, design constraints (limitation), and criteria (measure) for design evaluation for the following devices:

1. Full Service Auto Cruise Control
2. Automated Floor Cleaning
3. Ultimate Fitness Equipment
4. Swim Kickboard
5. Automobile Sunglass Case
6. Ice Cream Scoop for People with Arthritis