

King Saud University

College of Engineering

GE 105: **Introduction to Engineering Design**

Tutorial 1

Q1

- a. What is engineering?
- b. Who is affected by engineering?

Q2

- a. What is design?
- b. Define engineering design, mechanical engineering design and electrical engineering design.
- c. What is a “good design”?
- d. Identify different types of design works.

Q3

- a. What is the difference between analysis, design and reproduction?
- b. Determine whether the following tasks involve analysis, design or reproduction:
 1. Find a way to mount a cellular telephone inside a car to permit hands-free operation.
 2. Find a way to stack cans of beans so that the smallest sized box can be used for shipping.

Q4

Carry out a futuring exercise to visualize

- a. A homework assignments for GE 105 in the year 2030.
- b. The selling features of a car in the year 2030.