

GE-105
Section 09, CRN: 36106/7/8
First Semester 1438-39 H (Fall-2017) – 2(1,1,2)
“Introduction to Engineering Design”

Wednesday, November 22, 2017 (04/03/1439H)

Homework 3

#	Names:	Student Numbers:
1.		43
2.		43
3.		43
4.		43
5.		43

Solve the problems described below [5 points each]

1. **Human Factors.**

- Compare **three** industrial products to their ergonomic versions.
- You are also requested to highlight the **main feature(s)** that distinguish the ergonomic product. An example is shown below [2 points each].

 <p>Traditional vinyl eraser (not the best choice for precision erasing and grip)</p>	 <p>Ergonomic eraser:</p> <ul style="list-style-type: none"> • easier grip (ergonomics); • aesthetically pleasing (psychology)
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- Note, you can earn **extra credit** by suggesting (using sketches) additional ergonomic design features to each example.

2. **Creativity in Design.**

- Demonstrate **two products** that demonstrate creativity in design.
- You should describe **what makes the design creative**, i.e. the engineering creative method (e.g. synthesis) and/or the creativity stimulation technique (e.g. analogy) that makes this design creative [2 points each].

Rules:

- You should work with your **project group** for this assignment.
- Place each answer on a **separate sheet**.
- Your work must be **typed** and written in **proper English**.
- Make sure to use properly **captioned figures/tables** (where applicable) and to properly cite all utilized **references**.
- Due date: **Monday, December 4th, 2017** (16/03/1439)