

King Saud University

College of Engineering

GE 105: **Intoduction to engineering design**

Thursday, October 16, 2014

Duration: **20 minutes**

Quiz 1 Solution

From the video entitled “MOBILE FLOOR FOR MATAF EXPANSION”, provide the following conceptual design information regarding the mobile floor concept.

Problem Statement	The capacity of the new Masa’a is much higher than the capacity of the existing Mataf and during pick times worshippers are in great danger of injury due to the extreme high density on the Mataf.
Objectives	Increase the capacity of Mataf and improve the condition of worshippers.
Constraints	No interruption of the ongoing Tawaf. Access over several ramps.
Concept validation method	Numerical simulation software.