ISE 3293 | Assignment 2 | Due: 1.00pm Tues. May 31 2016

How many questions did you complete (a completed question means that all the sub parts were done)? Write your answer as a fraction of the total number of questions **on the very top of your assignment: Example 10/17**

Please answer all questions. Remember this assignment is worth 5% and is your second assignment for the course. Make sure that you place all answers and output into a word document and store in a safe area till finished, all working must be shown in the assignment answers. Keep a file (from Tinn-R or RStudio) with all your **R** code in – use `#Q1` etc to divide off questions. All statistical computing is to be done in **R** , please note that **MS**=Mendenhall and Sincich, *STATISTICS for science and engineering* 6th edition. You will need to convert the `.xls` files into comma delimited files `.csv` in excel and use `read.table( ..., header=TRUE,sep=",")` to read them into **R** . **PLEASE NOTE: IF THERE IS NO REQUIREMENT TO USE R THEN DON'T USE IT. THE ANSWERS SHOULD CONTAIN NO R CODE!**

Place the following files in the dropbox before 1.00pm Tues. May 31

1. Text file containing all the R commands used to generate answers, FILE SHOULD HAVE EXTENSION ".txt".

2. pdf file of the answers.

I do not want a massive file for this assignment (make it less than 6 MB) – **the answers only in the pdf and the code that produced them in a different file.**

ALL WORKING MUST BE SHOWN IN ORDER TO GET THE FULL MARK VALUE!!

1. **[3 marks] MS 3.36 pg 105-106**

2. **[3 marks] MS 3.52 - pg 111**

3. **[1 marks] MS Theorem 3.1 - pg 113** Prove the theorem in your own words.

4. [**1 marks**] **MS Theorem 3.2 - pg 114** Prove the theorem in your own words.

5. [**1 marks**] **MS Theorem 3.3 - pg 116** Prove the theorem in your own words.

6. [**1 marks**] **MS Theorem 3.4 - pg 117** Prove the theorem in your own words.

7. [**3 marks**] **MS 4.2 - pg 138**

8. [**4 marks**] **MS 4.12 - pg 143**

9. [**4 marks**] **MS 4.34 - pg 154**

10. [**2 marks**] **MS 4.46 - pg 158**

11. [**2 marks**] **MS 4.54 - pg 162**

12. [**2 marks**] **MS 4.66 - pg 168**

13. [**3 marks**] **MS 4.78 - pg 173**

14. [**4 marks**] **MS 5.2 - pg 191**

15. [**3 marks**] **MS 5.10 - pg 196**

16. [**3 marks**] **MS 5.36 - pg 205**

17. [**5 marks**] **MS 5.38- pg 205**