WEEKLY CLASS SCHEDULE:

WEEK 1(1/17/2017,1/19/2017)

Lectures:

Lecture 1: Linear Statistical Modelling and Social Sciences

Lecture 2: Linear Modelling Linear Regression an Introduction

Readings:

Chapter 1: Read all sections

Chapter 2: Read all sections

Homework: Due 1/30/2017 During discussion .Please turn in a paper copy.

Chapter 1 : Exercise 1.1a,b,c

Chapter 2: Explain in your own words:

1) Explain the assumptions of linear regression.
2) Explain the tradeoff between variance and bias.
3) Explain lowess method for regression. What are the advantages of lowess over local averaging.
4) When do we use non parametric naïve regression. Name one the method in this category. Explain how it works.

Discusssion: Due 1/30/2017

Please remember to attend your labs. The participation points are vital for your grades. Try to install RStudio beforehand. If you need assistance please ask the GSI. Please complete the lab by creating a .rmd file and then knitting it to a pdf or .doc file. The discussions will be a lab assignment which you will have to upload onto bCourses.