SCS2111 : Laboratory II – Statistical Methods using R

Lecturer: Dr. Champa Magalla
Teaching Assistant: Ms. Deshanee Wickramarachchi

Duration: 7 hours

Day and time:

	Lecture	Thursday 10.00 – 11.00am
	Laboratory session 1	Thursday 11.00am-1.00pm
	Laboratory session 2	Thursday 1.00pm-3.00pm

Course content:

Introduction
Descriptive Statistics
Estimation Theory and Testing
Simple Linear Regression & Correlation
Multivariate Data Analysis (if time permits)

Aim of the course:

To provide an understanding of how to explore and describe various real-life data sets, using R.

Some References:

- Introduction to Mathematical Statistics by Robert V. Hogg and Allen T. Craig
- Computational Statistics by Geof H. Givens and Jennifer A. Hoeting (February 2005)
- Elements of Computational Statistics by James E. Gentle (2002)
- Draper, N.R. and Smith, H. (1998) Applied Regression Analysis, 3rd edn, New York: John Wiley & Sons.

Method of Assessment:

- Written examination after completion of lectures (50%)
- Assignments (50%)

Objectives of the Course

After the completion of this course the student will be able to understand the data and use an appropriate data analysis method to meet an objective under consideration, and perform the analysis using R software. **The course will be conducted using R.**