

## P08811: Regression Modelling

Time	Monday	Tuesday	Wednesday	Thursday	Friday
10:00-12:00	<b>Session 1:</b> Simple Linear Regression	<b>Session 3:</b> Multiple Linear Regression	<b>Session 5:</b> Multicollinearity	<b>Session 7:</b> Model Selection	<b>Session 9:</b> Generalised Linear Model I
12:00-13:00	Break				
13:00-15:00	<b>Session 2:</b> Linear Regression Model Assumptions	<b>Session 4:</b> Residuals Analysis: Influential Observations	<b>Session 6:</b> Categorical Independent Variables	<b>Session 8:</b> Logistic Regression	<b>Session 10:</b> Generalised Linear Model II
15:00-15:30	Break				
15:30-16:30	<b>Practical session</b>	<b>Practical session</b>	<b>Practical session</b>	<b>Practical session</b>	<b>Practical session</b>

## **Recommended Reading:**

- Introduction to linear regression analysis. Douglas C. Montgomery; Elizabeth A. Peck; G. Geoffrey Vining. 2012, 5<sup>th</sup> edition, Wiley.  
ISBN: 978-0-470-54281-1
- Regression analysis. Rudolf J. Freund; William J. Wilson. 2006, 2<sup>nd</sup> edition, Academic Press.  
ISBN: 9780120885978
- Using R and RStudio for Data Management, Statistical Analysis, and Graphics. Nicholas J. Horton, Ken Kleinman. 2015, 2nd edition, CRC. ISBN 9781482237368