Longitudinal Data Analysis

- 1. Introduction of longitudinal studies and data exploration.
- 2. Linear models for longitudinal data.
- 3. Generalized linear models for Longitudinal data.
- 4. Marginal, random effects, and transition models.
- 5. Missing values in longitudinal data.
- 6. Joint modelling of longitudinal and time-to-event data.

References:

- 1. Diggle, P.J., Heagerty, P., Liang, K. Y., and Zeger, S. L. (2002). Analysis of Longitudinal Data. Oxford.
- 2. Davis, C. S. (2002). Statistical Methods for the Analysis of Repeated Measurements. Springer.

Evaluation:

Homework: 50% Final Project: 50%