

02429 ANALYSIS OF CORRELATED DATA: MIXED LINEAR MODELS

E2025, THURSDAYS 8-12

Week/ Lecture	Date	Topic	Ebook/ Book	Class exercises	Assignment
36/L1	4/9	Introduction Examples, ANOVA	E1	TBS ¹	
37/L2	11/9	Linear Mixed Models (LMM) Model specification and examples Model specification in R	E1-E2, E4		
38/L3	18/9	Case studies Drying of beech wood. Other.	E3-E4		
39/L4	25/9	LMM theory I.	E4		
40/L5	2/10	Hierarchical random effects (Multilevel models)	E5		
41/L6	9/10	Model diagnostics	E6		Midterm Assignment In groups of two, 20%.
42	16/10	Autumn holidays			
43/L7	23/10	The analysis of split-plot design data	E7		
44/L8	30/10	Analysis of covariance	E8		
45/L9	6/11	Random coefficient models	E9		
46/L10	13/11	LMM theory II	E10		
47/L11	20/11	Repeated measures I other	E11		Exam Assignment Individual, 20%.
48/L12	27/11	Repeated measures II (Longitudinal/panel data)	E12		
49/L13	4/13	Generalized Estimating Equations (GEE models, LMM vs GEE)	TBS		
Final exam²					Individual, 60%.

¹TBS: To be selected.

²An **individual oral exam** of about 30 minutes based on the Exam Assignment with internal examiner. For each topic, a pdf and an R-code file will be uploaded to DTU learn prior to the lecture day.