

**02429 ANALYSIS OF CORRELATED DATA: MIXED LINEAR MODELS.
(FOR EXPERIMENTAL AND OBSERVATIONAL DATA)**

E2026, THURSDAYS 8-12

Lecture-week	Date	Topic	Ebook/ Book	Class exercises	Assignment ²
L1-36	3/9	Introduction Some examples Linear Models (LM)	E1	TBS ¹	
L2/37	10/9	Linear Mixed Models (LMM) Model specification and examples Model specification in R	E1-E2, E4		
L3-38	17/9	Case study Drying of beech wood.	E3-E4		Assignment 1 Individual, pass/non pass
L4-39	24/9	LMM theory I.	E4		
L5-40	1/10	Hierarchical random effects (Multilevel models)	E5		Midterm assignment 20% In groups
L6-41	8/10	Model diagnostics	E6		
-42		Autumn holidays			
L7-43	22/10	The analysis of split-unit	E7		
L8-44	29/10	Analysis of covariance	E8		
L9-45	5/11	Random coefficient models	E9		
L10-46	12/11	LMM theory II	E10+ Note		
L11-47	19/11	Repeated measures I	E11		Exam assignment 20% In groups
L12-48	26/11	Repeated measures II (Longitudinal/panel data)	E12		
L13-49	3/12	Logistic regression ($\in$ GLMM) Generalized Estimating Equations	Note		
Final oral exam²					Individual, 60%.

¹TBS: To be selected.

²It is compulsory to pass each of the three assignments prior to presenting the final exam.

An **individual oral exam** based on the Exam assignment with an internal examiner.

For each lecture, a pdf and an R-code file will be uploaded to DTUlearn prior to the lecture day.

R-code for one of the exercises will be uploaded to DTUlearn at the end of each lecture.