

University of Pretoria Yearbook 2019

Linear mixed models 781 (STK 781)

QualificationPostgraduateFacultyFaculty of Natural and Agricultural SciencesModule credits15.00ProgrammesBScHons Mathematical StatisticsService modulesFaculty of Natural and Agricultural SciencesPrerequisitesBScHons and BComHons in Mathematical Statistics: WST 311; BComHons Statistics: STK 310, STK 320.Contact time1 lecture per week

Language of tuition Module is presented in English

Department Statistics

Period of presentation Semester 2

Module content

Specification of linear mixed model, model assumptions, estimation (REML and ML), diagnostics, hypothesis tests, interpretation of parameter estimates, calculating predicted values. Specific models: two- and three-level models for clustered data, intraclass correlation coefficients, repeated measures data, random coefficient models for longitudinal data, models for clustered longitudinal data, models for data with crossed random factors. Using statistical software to analyse LMMs.

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