UCLouvain

lstat2210

2018

Advenced linear models

4 credits	15.0 h + 5.0 h	Q1

Teacher(s)	Bertrand Aurélie (compensates Legrand Catherine) ;Legrand Catherine ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	- Review of generalised linear models - Dispersion models - Linear mixed models. - Generalised linear mixed models. - Autoregressive models. - Marginal models and generalised estimating equations.
Aims	1 This is a second cycle course giving a critical overview of recent scientific developments in the field. It will deal with present extensions of linear and generalised linear models. The considered extensions will be of two types : - a explicit modelling of dispersion as a function of available covariates. - a amendment of (generalised) linear models to deal with clustered or longitudinal data. - - - - *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Content	- Review of generalised linear models - Dispersion models - Linear mixed models. - Generalised linear mixed models. - Autoregressive models. - Marginal models and generalised estimating equations.
Bibliography	Transparents du cours disponible sur Moodle. Références données au cours.
Faculty or entity in charge	LSBA

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Statistic: Biostatistics	BSTA2M	4		
Master [120] in Biomedical Engineering	GBIO2M	4		
Master [120] in Statistic: General	STAT2M	4		
Master [120] in data Science: Statistic	DATS2M	4		