UCL Université catholique de Louvain

LSTAT2210

2015-2016

Advenced linear models

4.0 credits	15.0 h + 5.0 h	1q

Teacher(s) :	Legrand Catherine ; Desmet Lieven (compensates Legrand Catherine) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Prerequisites :	*The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
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 :	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.
Faculty or entity in charge:	LSBA

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
	STAT9CE	4	-	
Master [120] in Statistics: Biostatistics	BSTA2M	4	LSTAT2020 **and** LSTAT2120	
Master [120] in Statistics: General	STAT2M	4	-	
Master [120] in Business engineering	INGE2M	5	-	
	STAT2FC	4	-	