





4.00 credits	15.0 h + 7.5 h	Q1
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Teacher(s)	Legrand Catherine ;						
Language :	French						
Place of the course	Louvain-la-Neuve						
Prerequisites	<p>Concepts and tools equivalent to those taught in teaching units</p> <table> <tr> <td>LSTAT2020</td> <td>Logiciels et programmation statistique de base</td> </tr> <tr> <td>LSTAT2120</td> <td>Linear models</td> </tr> <tr> <td>LSTAT2100</td> <td>Modèles linéaires généralisés et données discrètes</td> </tr> </table>	LSTAT2020	Logiciels et programmation statistique de base	LSTAT2120	Linear models	LSTAT2100	Modèles linéaires généralisés et données discrètes
LSTAT2020	Logiciels et programmation statistique de base						
LSTAT2120	Linear models						
LSTAT2100	Modèles linéaires généralisés et données discrètes						
Main themes	- Review of generalised linear models - Dispersion models - Linear mixed models. - Generalised linear mixed models. - Autoregressive models. - Marginal models and generalised estimating equations.						
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>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.</p>						
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	Learning outcomes
Master [120] in Data Science : Statistic	DATS2M	4		
Master [120] in Biomedical Engineering	GBIO2M	4		
Master [120] in Statistics: Biostatistics	BSTA2M	4		
Master [120] in Statistics: General	STAT2M	4		
Certificat d'université : Statistique et science des données (15/30 crédits)	STAT2FC	4		