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| 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 | |  |