UCL Université catholique de Louvain

LSTAT3220

2015-2016

Statistical consulting

5.0 credits	30.0 h	1 + 2q

Teacher(s) :	Ritter Christian ;
Language :	Anglais
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 :	- Exploratory data analysis and rendering of data by tables and graphs - practical issues in data analysis (missing values, outliers, transformations) - review of common statistical analysis methods (regression, ANOVA, multivariate analysis; choice depends on selected projects) - communication with clients (project discussions, presentation of results, report writing) - professional and ethical conduct (analysis plan and cost estimation, mutual responsibilities of statistician and client, truthful representation, guidelines for ethical conduct) - practical problem solving in two real life cases coming from diverse application areas including medecine, psychology, engineering, agronomy and business ...
Aims :	The participants in this course will acquire knowledge and skill in three areas: - statistical analysis of real life data (from problem method), - communication (discussion with clients, oral and written presentation of results), - aspects of professionalism and ethical conduct (planning, cost, good practice) To accomplish these objectives, the participants will work on two real life consulting projects and their evaluation provides the main part of their grade. *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 :	- Exploratory data analysis and rendering of data by tables and graphs - practical issues in data analysis (missing values, outliers, transformations) - review of common statistical analysis methods (regression, ANOVA, multivariate analysis; choice depends on selected projects) - communication with clients (project discussions, presentation of results, report writing) - professional and ethical conduct (analysis plan and cost estimation, mutual responsibilities of statistician and client, truthful representation, guidelines for ethical conduct) - practical problem solving in two real life cases coming from diverse application areas including medecine, psychology, engineering, agronomy and business ...
Faculty or entity in charge:	LSBA

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

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
	STAT9CE	5	-	
Master [120] in Statistics: Biostatistics	BSTA2M	5	-	
Master [120] in Statistics: General	STAT2M	5	LANGL1330 **and** LSTAT2020 **and** LSTAT2110 **and** LSTAT2120 **and** LSTAT2100	
	STAT2FC	5	-	