UCLouvain

llsma2002

2024

Research Methods

10.00 credits	60.0 h	Q1 and Q2

Teacher(s)	Catanzaro Daniele (compensates Chevalier Philippe) ;Chevalier Philippe ;Taskin Laurent ;Verardi Vincenzo ;
Language :	English
Place of the course	Louvain-la-Neuve
Prerequisites	None
Main themes	The objective for this course is to provide students in business management with tools and skills necessary in Qualitative and Quantitative Research Methods, and to strengthen their logic reasoning skills, in order to help them develop rigorous arguments. A good understanding of principles and techniques of research in management will enable students to apply these techniques, as well as acquire on their own additional techniques rooted in their field of research.
Learning outcomes	**At the end of this learning unit, the student is able to :** **On successful completion of this program, each student will acquire the following skills :** 1. A scientific and systematic approach 2. Knowledge and reasoning 3. Project management 4. Personal and professional development **At the end of this course, the student will be able to :** 1 • confidently conceive, formulate and motivate his/her personal research project, from the research questions to the choice of data analysis approaches; • show their understanding of major qualitative and quantitative research methods and their ability to make use, and interpret the results of the used research techniques; • develop a qualitative and a quantitative research design; • identify and conduct the appropriate techniques for different kinds of research questions; • critically analyze a scientific research contribution in management.
Evaluation methods	**Continuous evaluation** • Date: To be specify later • Type of evaluation: continuous assessment not remediable • Comments: In group/individual, written preparations, reading scientific articles, exercises, etc. **Evaluation week** • Oral: No • Written: No • Unavailability or comments: No **Examination session** • Oral: No • Written: No • Unavailability or comments: individual work at the end of the January session which can be represented in case of failure in the second session.
Teaching methods	Methodological and theoretical lectures of teachers, accompanied by empirical studies illustrations, alternate with discussions and applications with participants. Teaching is based on reading of scientific articles and book chapters deemed essential to master qualitative and quantitative research methodologies in Management. Students are expected to summarize and present some of these and to discuss it in groups. The content of this course (for example Quantitative Research Methods) will be adapted to the level of advancement of students in order to follow them in their research projects.
Content	**Qualitative Research Methods:** • General characteristics of qualitative approaches • Research design and data collection • Interview Guide and questioning

	• Analyzing and making sense of data • Data Quality Control • Reflexivity and heterodox approaches • Ethnographic and Visual Approaches **Quantitative Research Methods** • Revision of linear regression models (least squares, inference, bootstrap) • Maximum Likelihood estimation (location, scale and regression) • Qualitative dependent variable models (binary, polychoromous ordered and unordered, count) • Limited dependent variable regression (censoring and selection) • Panel data (pooled, fixed-effects, random effects, conditional fixed-effects logit, diff-in-diff) • An introduction to structural equation modelling SEM (latent variable, multilevel modelling) **Advanced Discrete Optimization** • Polytopes • Efficiency • TDI Systems • Matroid Theory • Equivalence between separation and optimization • Branch-&-cut • Case Studies
Inline resources	Moodle
Bibliography	See on Moodle
Faculty or entity in charge	CLSM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Management	GEST2M	10		🔍