Syllabus
Behavioral and Digital Economics for Effective Management (BDEEM)

Course title	Data Analysis and Softwares
Teacher	Emmanuel Peterlé
shared course	X No ☐Yes, with
Hourly volume	21
Evaluation methods	Personal report The expected submission is a report wherein students demonstrate their ability to utilize concepts and skills learned throughout the course. Beyond being merely evaluative, the project crafted by the students could serve as a valuable showcase piece for future interviews, aiding their transition into the professional environment. Students will conduct a statistical analysis, drawing on a data set tailored to their own professional ambitions.
Course summary	This course seeks to present students with the basic programming knowledge needed to conduct professional data analysis. Applications will be performed using R and various packages. **Content** This content may be subject to changes, depending on the needs and progress of the class. Unit 1 - First steps Unit 2 - Statistical Analysis Unit 3 - Cleaning Data Unit 4 - Programming with R Unit 5 - The fancy R (Tidyverse) Unit 6 - Projects Each session focuses on a learning unit, and is divided into two segments. Initially, instruction follows a lecture format where various functions and concepts of the unit are presented by the teacher. Subsequently, students independently undertake application exercises and receive personalized feedback. This approach allows us to tailor pedagogy to the individual student's progress and strengths.
Skills	Following this course, student will have developed the ability to: Recognize a clean data structure and be able to organize a dataset so that it can be exploited. Use different visualization tools to provide a clear understanding of the data.

	Perform and interpret a complete statistical analysis, starting from an economic problem. Write a clean code that can be used by coworkers in the workplace.