

Syllabus

Behavioral and Digital Economics for Effective Management (BDEEM)

Course title	Data Science in Economics with Python
Teacher	Emmanuel Peterlé
shared course	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Hourly volume	15
Evaluation methods	<p>Individual report</p> <p>The examination aligns with an applied scenario that students may encounter during their internship or in a potential future professional situation. It is expected that students will be able to handle the data provided by the instructor and utilize their Python knowledge acquired during the course to deliver a high-quality analytical work.</p>
Course summary	<p>This lecture offers an introduction to the Python programming language and its use in data science.</p>
Skills	<p>Following this course, student will have developed the ability to:</p> <ul style="list-style-type: none"> leverage Python programming for conducting data analysis in economics, including importing, cleaning, and manipulating data sets. construct, estimate, and interpret econometric models using Python packages to address real-world economic issues. Understand how to apply machine learning techniques using Python to economic problems for predictive

modeling, uncovering patterns and making economic forecasts.

Content

Chapter 1 - First steps

Chapter 2 - Leverage user-defined functions to optimize your workflow

Chapter 2 - Handle datasets to facilitate statistical analysis

Chapter 3 - Data visualization and descriptive analysis

Chapter 4 - Implement models to tackle economics and business issues