COURSE OBJECTIVES
To empower students with the knowledge to develop decision models in Excel that incorporate uncertainty, by using techniques like random number generation and Crystal Ball Excel plug-in.

KEY CONCEPTS
- Risk analysis
- Decision making under uncertainty
- Statistics and data analysis
- Random number generation
- Quantitative spreadsheet skills.
- Oracle “Crystal Ball” Excel plug-in

COURSE DESCRIPTION
We live in an uncertain world. In business and every-day life one must make decisions all the time with a stochastic outcome. Understanding this uncertainty by relying on rigorous methodology can help us make better decisions. Through simulation and risk analysis tools provided in this course, we can account for randomness in decision-making, by considering a range of possible outcomes, and their probabilities of occurrence for each possible course of action. Examples of uncertain situations where we will perform simulations and risk analysis will include many business fields like finance, marketing, accounting, and operations.

In relation to DSO 547 (Designing Spreadsheet-Based Business Models), this course focuses more on uncertainty modeling (without assuming knowledge from DSO 547).