

Teil II: Detaillierte Informationen zu den Modulen

1. Methoden- und Schlüsselqualifikation

Bei den Modulen CC 501 und CC 504 handelt es sich um Pflichtveranstaltungen. Zusätzlich muss eines der beiden Module CC 502 und CC 503 belegt werden. Eine Belegung beider letztgenannten Module ist nicht möglich.

Module: CC 501 Decision Analysis		
Contents: In this course we discuss methods and concepts that were developed to support and improve rational decision making in various areas of application. We will cover decisions under certainty and risk (EUT), decisions with single and multiple objectives, and decisions given incomplete information about probabilities or preferences. The course also covers descriptive decision theories such as Prospect Theory. An introduction into probability calculus including Bayes Theorem will be given. We will also discuss various visualization techniques such as influence diagrams and decision trees.		
Learning outcomes: After completing the course students will know about rational decision processes, and how to structure and visualize decision problems. They will be able to use decision analysis techniques at an easy level to deal with multiple objectives, risk, intertemporal outcomes and incomplete information. Moreover they will know about typical behavioral findings that conflict with the prescriptive methods.		
Prerequisites: Formal: - Recommended: The lecture generally assumes basic knowledge in mathematics calculus, optimization and statistics (mean, variance, standard deviation).		
Obligatory registration: no		Further information on registration: -
Courses	Hours per week	Self-study
Lecture	2	6
Exercise class	2	2
Tutorium	2	
ECTS in total		6
Form of assessment	Written exam (90 min.)	
Preliminary course work	-	
Lecturer/Person in charge	Jun.-Prof. Dr. Danja Sonntag	
Duration of module	1 semester	
Offering	Fall semester and Spring semester	
Language	English	
Program-specific educational goals	LG 3	
Grade	graded	
Range of application	M.Sc. MMM, M.Sc. MMBR, M.Sc. Bus. Edu., M.Sc. Bus. Math.	