Modulbeschreibung für Vertiefungsmodule des Wahlpflichtbereiches

Titel des Moduls	Mathematische Wirtschaftstheorie
In englischer Sprache	Mathematical Business Theory

Reine Mathematik	
Angewandte Mathem.	X

	Vorlesung	Übung
Umfang	2 SWS	

Inhalt

The main objective of this course is to study the theory of existence and optimality of Competitive Equilibria. We will initially devote some time to the so-called Arrow-Debreu model, where only finitely many commodities are exchanged. We will then provide an introduction to the theory of Riesz spaces and Banach Lattices, which is required to tackle the existence question in infinite dimensions. We will then move to the main body of the course, where we will study pure exchange and production economies in a setting where infinitely many commodities are traded. This will be based on the works of Aliprantis, Brown, Burkinshaw, Mas Colell and Zame, among others. Finally we will study an overlapping generations model, time permitting.

Voraussetzungen	Analysis I, II, IIIa,b, Stochastik I; Empfohlen Reelle Analysis und Stochastik II

Regelsemester	6. Fachsemester

Abschluss	Leistungsschein oder Prüfung

Prüfungszulassungsvoraussetzung	Keine

Studienpunkte	4 bei Abschluss mit Prüfung

R = Reine Mathematik
A = Angewandte Mathematik