

Course Title: Economic Theory	Number of Units: 1
SSD : SECS-S/06	CFU: 6
Course aims: The course introduces students to a rigorous investigation of equilibrium concepts in microeconomic theory, including cooperative and non-cooperative solution concepts in general equilibrium models with uncertainty and asymmetric information.	
Course Description: Part I Mathematical techniques for equilibrium analysis: real analysis; metric spaces; topology; measures; convexity; separation theorems; contraction mapping; fixed point theorems; probability and information structures. Part II Applications to the study of existence and optimality properties of competitive equilibrium (CE): existence and efficiency of CE; core, value and fairness properties of CE; core, value and fairness properties of CE in asymmetric information economies; alternatives to the expected utility theory.	
Assumed Background: Multivariate Calculus, Topology of \mathbb{R}^k	
Assessment methods: written exam	