Course Name	Dirichlet Forms, Markov Processes and Semigroups
Contents and Objectives	Content: • Forms and the associated selfadjoint operators • Markovian semigroups and their generators • Markovian semigroups and stochastic processes Objectives: Familiarity with the basic concepts of Dirichlet spaces, understanding of the interrelationship and interplay of analytical, geometric, and probabilistic aspects and their applications.
Teaching	This course consists of lectures and exercise classes. • Lecture: Dirichlet Forms, Markov Processes and Semigroups (4h/week) • Exercise class: Dirichlet Forms, Markov Processes and Semigroups (2h/week) This class can be taught remotely.
Prerequisites	
Verwendbarkeit des Moduls	-
Examination	Oral exam (30 minutes)
Credits	8 ECTS points
Frequency	This course is given at least every second year.
Workload	The estimated total working time for this course is 240 hours.
Duration	This course is given during one semester.