

Course Name	Geometric analysis
Contents and Objectives	<p><u>Content:</u></p> <ul style="list-style-type: none"> • Minimal surfaces • Mean curvature flow • Ricci flow • Harmonic maps between Riemannian manifolds • Differential equations on manifolds • Geometric measure theory • Currents • Pluripotential theory • Kähler–Einstein metrics <p>Objectives: Participants will be familiar with the foundations of geometric analysis and are able to analyze partial differential equations on manifolds. They will be capable of formulating problems from applied fields in a precise mathematical form and to carry out proofs independently.</p>
Teaching	<p>This course consists of lectures and exercise classes.</p> <ul style="list-style-type: none"> • Lecture: Geometric analysis (4h/week) • Exercise class: Geometric analysis (2h/week) <p>This class can be taught remotely.</p>
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.