

Remote Sensing, geoInformation and Visualization (RSIV)

1. Jahr	Winter	Pflichtmodul 1: RCM01 Remote Sensing of the Environment (6)	Pflichtmodul 2: RCM02 Earth System Sciences (6)	Pflichtmodul 3: RCM03 Data Analysis and Statistics (6)	Pflichtmodul 4: RCM04 Geoinformation Systems (6)	Pflichtmodul 5: RCM05 Visualization and Communication (6)
	Sommer	Wahlpflichtmodul 1: Remote Sensing Methods (6)	Wahlpflichtmodul 2: Objects of Observation (6)	Wahlpflichtmodul 3: Data Analysis and Programming (6)	Wahlpflichtmodul 4: Geoinformation System Applications (6)	Wahlpflichtmodul 5: Visualization and Communication (6)
2. Jahr	Winter	Wahlpflichtmodul: Wahlpflichtmodul (6)	Wahlpflichtmodul: Wahlpflichtmodul (6)	Wahlpflichtmodul: Wahlpflichtmodul (6)	Wahlpflichtmodul: Wahlpflichtmodul (6)	Wahlpflichtmodul: Wahlpflichtmodul (6)
	Sommer	Masterarbeit (6)				

Remote Sensing Methods

RSM01 Optical Remote Sensing
RSM02 Terrestrial and Airborne Lidar and Photogrammetry Systems
RSM03 Remote Chemical Sensing
RSM04 Earth Surface Deformation and Radar Satellite Interferometry
RSM05 Advanced Topics of Remote Sensing Methods

Objects of Observation

OBS01 Soilscape Processes
OBS02 Sediment-mass transport on the Earth's Surface
OBS03 Biospheres of the Earth
OBS04 Remote Sensing und Permafrost
OBS05 Earthquake and Volcano deformation
OBS06 Earth Magnetic Field and Physics of the Upper Atmosphere
OBS07 Climate Change and Climate Dynamics
OBS08 Planetary Remote Sensing
OBS09 Planetary Physics
OBS10 Atmospheric Science in the Anthropocene
OBS11 Advanced Topics of Objects of Observations

Data Analysis and Programming

DAP01 Bayesian inference and data assimilation
DAP02 Nonlinear Data Analysis Concepts
DAP03 Big Data Analytics
DAP04 Spatial data analysis with numerical methods
DAP05 Advanced Data Analysis and Programming

Geoinformation System Applications

GIS01 Analysis of Digital Elevation Models
GIS02 Mapping and Geoinformation Systems
GIS03 Environmental Spatial Statistics and Models
GIS04 GIS, Geohazards, Georisks
GIS05 Advanced Geoinformation System Applications

Visualization and Communication

VCM01 Examples of Visualization and Communication Methods
VCM02 Industry Internship or Practical Application
VCM03 Extended Internship or Practical Application
VCM04 Advanced Visualization and Communication Methods