BSc-Themen 2024

Remote Sensing Laboratories

Earth System Science (ESS)

ESS 1: How do plant functional traits influence carbon cycle components such as photosynthesis and carbon storage? (EN) Supervised by Prof. Maria J. Santos's group

ESS 2: Climate Change Impacts on Biodiversity and Food Security in Agroforestry Systems (EN). Supervised by Prof. Maria J. Santos's group

ESS 3: Which are the functional traits in tropical plant communities with the most accurate remote sensing estimates and which best represent ecosystem changes? (EN) Supervised by Prof. Maria J. Santos's group

ESS 4: Monitoring an exotic plant species invasion from space (EN). Supervised by Prof. Maria J. Santos's group

ESS 5: Nucleation in aquatic ecosystems and consequences for restoration (EN). Supervised by Prof. Maria J. Santos's group

ESS 6: Geoengineering for and in the Arctic (DE/EN). Topic only available for ESS students. Supervised by Prof. Gabriela Schaepman-Strub's group

Remote Sensing (RS)

RS 1: Environmental monitoring using remote sensing approaches (DE/EN)

RS 3: Global Change and Biodiversity (DE/EN)

RS 4: Multitemporal land cover monitoring and change detection (DE/EN)

Remote Sensing of Water Systems (RSWS)

RSWS 1: Remote sensing of lakes and rivers / Fernerkundung von Seen und Flüssen (DE/EN)

RSWS 2: Remote sensing of water cycle components / Fernerkundung von Wasserkreislaufkomponenten (DE/EN)

RSWS 3: Remote sensing of environmental change / Fernerkundung von Umweltänderungen (DE/EN)

Spatial Genetics (SG)

SG 1: Leveraging remote sensing to monitor biodiversity / Einsatz der Fernerkundung zur Überwachung der biologischen Vielfalt (DE/EN)

SG 2: Remote sensing for resilient forests / Fernerkundung für widerstandsfähige Wälder (DE/EN)

SG 3: Spatial data in sustainable agriculture / Geodaten in der nachhaltigen Landwirtschaft (DE/EN)

SG 4: Precision pest management for pesticide reduction / Präzise Schädlingsbekämpfung zur Reduzierung von Pestiziden (DE/EN)

Human Geography

Labour Geography (LGG)

LGG 1: Societal challenges in the world of work (DE/EN)

LGG 2: Care work and social reproduction (DE/EN)

LGG 3: Feminist Geographies (DE/EN)

LGG 4: Geographies of precarious labour (DE/EN)

LGG 5: Digital Geographies and Society (DE/EN)

Political Geography (PGG)

PGG 1: Politische Ökologie: Konflikte um natürliche Ressourcen (DE/EN)

PGG 2: Krieg und Frieden - War and Peace (DE/EN)

PGG 3: Entwicklungshilfe und humanitäre Interventionen - Development Aid and Humanitarian Interventions (DE/EN)

PGG 4: Extractivism and Development (EN)

Space, Nature and Society (SNS)

SNS 1: Transformative change towards just sustainable futures (EN)

SNS 2: Mensch-Natur-Beziehungen / Human-nature relationships (DE/EN)

SNS 3: Alternative Zugänge im Naturschutz / Alternative approaches to nature conservation (DE/EN)

Social and Cultural Geography (SoKu)

SoKu 1: Rental markets and urban exclusion (EN/DE)

SoKu 2: Urban development processes: from vacancy to densification (EN)

SoKu 3: Infrastructure politics and climate finance (EN/DE)

Economic Geography (WGG)

WGG 1: Globale Warenketten: Ressourcen, Infrastrukturen und Märkte (DE/EN)

WGG 2: Postwachstum und alternative Ökonomien (DE/EN)

WGG 3: Plantation economy: Nature, labor and violence (DE/EN)

WGG 4: Food Geographies: Globalisierung der Nahrungsmittelproduktion und ethischer Konsum (DE/EN)

Physical Geography

Soil Science and Biogeography (2B)

2B 1: Bio- und Pedosphäre im Wandel (DE/EN)

2B 2: Stoffkreisläufe im System Boden, Pflanze, Atmosphäre (DE/EN)

2B 3: Ressource Boden (DE/EN)

Glaciology, Geomorphodynamics Group (3G)

3G 1: Gletscher und Eisschilde (DE/EN)

3G 2: Permafrost, Oberflächenprozesse und Naturgefahren im Hochgebirge (DE/EN)

3G 3: Auswirkungen des Klimawandels und Anpassung an den Klimawandel (DE/EN)

Environment and Climate (Eclim)

GeoChronology (GCH)

GCH 1: Boden- und Landschaftsdynamik (DE/EN)

GCH 2: Datierungstechniken als Tool zur Landschafts- und Umweltrekonstruktion (DE/EN)

GCH 3: Klima- und Umweltarchive (DE/EN)

Hydrology and Climate (H2K)

H2K 1: Klimavariabilität und Wasserressourcen (DE/EN)

H2K 2: Water in the critical zone (DE/EN)

H2K 3: Globale und lokale Wasserkonflikte (und deren hydrologische Ursachen) (DE/EN)

H2K 4: Wasserqualität (DE/EN)

Geographisches Institut

Geography Teacher Training (GTT)

GTT 1: Educational inequalities in urban spaces (DE/EN)

GTT 2: Geographie und Bildung: Fokus Humangeographie (DE/EN)

GTT 3: Geographie und Bildung: Fokus physische Geographie (DE/EN)

GIScience

GeoComputation (GCO)

GCO 1: Landschaftswahrnehmung in Texten/ Landscape perception in text (DE/EN)

GCO 2: Partizipatives GIS, traditionelles und lokales Wissen in GIS/ Participatory GIS, traditional and local knowledge in GIS (DE/EN)

GCO 3: Ziele für nachhaltige Entwicklung & GIS / Sustainable Development Goals & GIS (DE/EN)

GCO 4: Crowdsourcing und Geographische Informationen/ Crowdsourcing and Geographic Information (DE/ EN)

Geographic Information Systems (GIS)

GIS 1: Mobility Analytics for sustainable transport, health, and movement ecology [DE/EN]

GIS 2: Language as a spatial phenomenon – migration, boundaries, and the environment [DE/EN]

GIS 3: GeoAI: Artificial intelligence for geographic applications [EN]

GIS 4: Geographic diffusion: studying the spread of innovations, languages, cultures or diseases in space and time [DE/EN]

Geographic Information Visualization and Analysis (GIVA)

GIVA 1: Spatial Cognition and Behavioral Geography (DE/EN)

GIVA 2: Geographic information visualization of uncertainty (DE/EN)

GIVA 3: Location Privacy (DE/EN)

GIVA 4: Designing for Diversity – Adapting to Individuals (DE/EN)