COURSE DETAIL

NATURAL DISASTERS AND GEO INFORMATION SYSTEMS
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Summer
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Geography Environmental Studies
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title NATURAL DISASTERS AND GEO INFORMATION SYSTEMS
UCEAP Transcript Title NATURAL DISASTERS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
During the course an introduction into ArcGIS/ESRI and the free available Quantum GIS software is given, as well as into the image processing software ENVI/Harris Geospatial Solutions and the free available SNAP-software provided by ESA. Students learn where to find and download satellite data free of charge and free GIS data (streets, buildings, waterways, earthquake data, etc.) and how to integrate this data into the GIS. Further on, the students learn how digitize in ArcGIS and create their own data. The exercises deal with the elaboration of maps needed for natural hazard preparedness and mitigation and the creation of a database. Another focus is on the use of different Web-tools and interactive Web-maps created for the long-term monitoring of landscapes what is important for the detection of the impact of climate change on landscape development and its impact on natural hazards.

Language(s) of Instruction
English

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Host Institution Course Details

Host Institution Campus
TUBS

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

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