Hochschule München University of Applied Sciences

Courses in English
Course Description

Department	08 Geoinformatics
Course title	**Remote Sensing Cartography**
Hours per week (SWS)	4
Number of ECTS credits	5
Course objective	Students will apply image processing techniques to optimize remote sensing data quality. Various cartographic products that are based on remote sensing and GIS data will be created. In lab assignments, students will perform remote sensing data classifications and apply data quality assessmnets to their classification results. Students will learn how to work and interact in a team setting.
Prerequisites	Basic Statistics Fundamentals of Remote Sensing Fundamentals of Digital Image Processing GIS Fundamantals
Recommended reading	Lillesand, T. M., et. al. (2015): Remote Sensing and Image Interpretation. – 7th Edition, John Wiley & Sons, Inc. (ISBN: 978-1-118--34328-9). Weitere Literaturhinweise im Script auf Moodle
Teaching methods	Lectures; E-Learning-Materials; Lab Assignments; Projects, Team Work; Student Presentations.
Assessment methods	Project Assignments
Language of instruction	English
Name of lecturer	Prof. Dr. Sven Fuhrmann
Email	sven.fuhrmann@hm.edu
Link	https://www.geo.hm.edu/kontakt/prof/fuhrmann/index.de.html
Course content	• Acquisition of remote sensing data • Performing merges and estimating the quality of merges • Combination of raster and vector data in a remote sensing map • Map and legend design in remote sensing maps • Combination of remote sensing data with a DGM • Animated remote sensing data • Data visualization on various media Supervised classifications with quality control Integration and visualization of remote sensing data in GIS
Remarks	