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| Module Name | 2.2.1 Digital Spatial Analysis – Practical Exercises |
| Identification code | AEF291, EM2.2.1, AE-CAU305 Modul 2.2.1 (QIS-registration for examination) 75100 |
| Subtitle | |
| Courses embedded | |
| Term | Summer |
| Coordinator | Dr. G. Hörmann |
| Teachers | Dr. G. Hörmann, Prof. Dr. N. Oppelt |
| Tuition language | English |
| Programme involvement | Elective M.Sc. Environmental Management/Applied Ecology/Ecohydrology/ Agricultural Sciences |
| Teaching form, contact time per week class size | Exercises Digital Spatial Analysis (30h/90h) Exercises Basics of remote sensing (15h/45h) Lecture Basics of remote sensing (15h/45h) 25 |
| Workload overall | 180h |
| Contact time | 60h |
| ECTS credit points | 6 |
| Preconditions prescribed | |
| Prerequisites recommended | |
| Learning outcomes | Students are able to create a data and map basis for a given region that is suitable for planning and modelling. They are able to choose methods and tools that are appropriate for the project and have an overview on technical possibilities of databases and geographic information systems. They are able to judge the quality of the used data and be aware of appropriate measures to fill gaps in data. |
| Content | Work with the data of research centres, monitoring projects, satellite and aerial pictures, open positions depending on setting of tasks. Work with a wide variety of technology to gain spatial data, including own measurements and data procurement, e.g. aerial photos, GPS, mapping. Introduction into theory and practice of analysis of satellite pictures, software and hardware of spatial analysis |
| Assessment | Project 100% Hörmann/Oppelt |
| Teaching media | |
| References | - Richards, J.A, Xiuping, J., 2006: Remote Sensing Digital Image Analysis. An Introduction, Springer Verlag. - http://pcraster.geo.uu.nl/documentation/index.html (PC-Raster Development Group: The PC-Raster Manual) |
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