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| Subject name | Integrated Watershed Management | |
| Subject code | IS-IWM-14 | |
| Department | Hydraulic Engineering and Geotechnics | |
| Faculty | Environmental Engineering and Land Surveying | |
| Subject supervisor/Lecturer | Professor Artur Radecki-Pawlik | |
| General information | Teaching period | winter or summer semester |
| | ECTS credit | 6 |
| | Lectures total | 15 |
| | Lab practical | 30 |
| Objective and general description | Get students acquainted with modern watershed management: the theory and practice. Within the framework of the Water Directive of EU such knowledge is necessary to manage catchments, river channels and mountain streams. During the course case studies of watershed management from all over the world are presented. In this way the student is prepared to take the management tasks. | |
| Lectures 5 x 3 hours | <p>Introduction and nomenclature</p> <ol style="list-style-type: none"> 1. Methods, techniques and tools connected with watershed management <p>Hydrology catchment problems Water quality within the catchment Aquatic Biota Governance and institutional framework Land use issues in a watershed context</p> <ol style="list-style-type: none"> 2. Runoff problem in watersheds 3. Case studies | |
| Lab practicals 10 x 3 hours | Students are suppose to prepare an analysis of watershed and/or channel management program of chosen catchment and/or stream/river using they knowledge from lectures and advised papers. | |
| References | <p>Amatya D., Radecki-Pawlik A. 2005. Long-Term Flow Dynamics of Three Coastal Experimental Forested Watersheds. ASAE (American Society of Agricultural Engineers), Annual International Meeting, July 17-20 Tampa, Florida, USA. Paper No.: 05221, s. 15.</p> <p>Radecki-Pawlik A. 1999. Water storm capacity in Langley area (B.C. Canada) using rainfall and storm-water runoff, Rocz. Nauk. AR w Poznaniu, 20, s. 501-510, poz. bibl.10.</p> <p>Radecki-Pawlik A. 2000. Watershed management and water protection policy in high-industrialized region – Vancouver BC, example from Canada. IX Krajowa i II Międzynarodowa Konferencja Naukowo-Techniczna nt.: Ochrona Jakości i Zasobów Wód, Zakopane, s.174-182, poz. bibl.10.</p> | |