

**MODULE: Environmental Aspects**

Last Update: 12.6.2012

1	Modulname Module name	Environmental Aspects
2	Modulkürzel Identification code	011000801
3	Leistungspunkte (LP) Credit points (CP)	6
4	Semesterwochenstunden (SWS)/Semester load	4
5	Moduldauer (Anzahl der Semester) Module duration (Number of semesters)	2
6	Turnus Cycle	annual
7	Sprache Language	Englisch
8	Modulverantwortliche(r) Person in charge of module	Dr. rer. nat. H.-G. Schwarz-v.Raumer Institut für Landschaftsplanung und Ökologie Tel. 0711/685-84145, e-Mail: svr@ilpoe.uni-stuttgart.de
9	Dozenten Lecturers	Dr. rer. nat. Hans-Georg Schwarz-v.Raumer Prof. Dipl.-Ing. Antje Stokmann Prof. Dr.-Ing Silke Wieprecht Dr. Walter Vogt NN
10	Verwendbarkeit/Zuordnung zum Curriculum /Applicability/Assignment to curriculum	Infrastructure Planning (M.Sc.), mandatory, SS+WS WAREM (M.Sc.), elective, SS+WS
11	Voraussetzungen Prerequisites	
12	Lernziele Intended learning outcome	<p>The students have basic knowledge of environmental aspects in infrastructure planning concerning soils, species and biotopes, air quality and hydro systems. They know how to include environmental aspects in spatial planning and to assess environmental impacts of strategies and projects. They are aware and have gained skills in</p> <ul style="list-style-type: none"> <li>▪ ecological analysis methods (e.g. land suitability)</li> <li>▪ how to use Models, computer tools and geographical information systems (GIS)</li> <li>▪ and Environmental Impact Assessment</li> </ul> <p>The students have first experiences in project exercises.</p>
13	Inhalt Content	<p>A: Lecture "Ecological aspects of infrastructure planning"</p> <p>Introduction to the environment factors and goods: geological resources, species and biotopes, ecosystem functioning, Air quality, hydrosystems, impact of land use systems (especially agriculture and urbanisation, ecological landscape design.</p> <p>B: Seminar "Environmental impact assessment"</p> <p>In the seminar students have the task to prepare a presentation and a paper about:</p>

		<ul style="list-style-type: none"> <li>▪ Structuring and evaluation of environmental impacts of strategies and projects</li> <li>▪ Legislative aspects</li> <li>▪ Modelling and evaluation methods</li> <li>▪ Tools for impact modelling</li> <li>▪ Case study examples</li> </ul> <p>Alternatively the students work on case study exercises covering strategic regional and urban planning as well as road, housing, industrial, water, sports, tourism and other infrastructure projects</p>																								
14	Literatur/Lernmaterialien Literature/Learning material	Information will be provided during the lectures Additional material can be downloaded from ILIAS																								
15	Lehrveranstaltungen und Lehrformen Course units and teaching methods	Ecological aspects of infrastructure planning, Lecture, 2 SWS, 3 LP Environmental impact assessment, Seminar, 2 SWS, 3 LP																								
16	Abschätzung des Arbeitsaufwands Estimation of workload	<table border="1"> <thead> <tr> <th>Pos</th> <th>unit</th> <th>presence time</th> <th>self study</th> <th>project</th> <th>Sum</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Lecture</td> <td>28,0</td> <td>28,0</td> <td>0,0</td> <td>56,0</td> </tr> <tr> <td>2</td> <td>Seminar</td> <td>28,0</td> <td>90,0</td> <td>30,0</td> <td>148,0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>204,0</td> </tr> </tbody> </table>	Pos	unit	presence time	self study	project	Sum	1	Lecture	28,0	28,0	0,0	56,0	2	Seminar	28,0	90,0	30,0	148,0						204,0
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17a	Studienleistungen (unbenotet) Course achievements (without mark)	USL-V: seminar paper																								
	Studienleistungen (benotet) Course achievements (with mark)																									
17b	Prüfungsleistungen (benotet) Examination achievements (with mark)	PL-S: written examination 120 min. Weight 1.0 (closed book)																								
18	Grundlage für... Basis for...																									
19	Medienform Media																									