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 N.N
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	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. The are aware and have gained skills in ▪ ecological analysis methods (e.g. land suitability) ▪ how to use Models, computer tools and geographical information systems (GIS) ▪ and Environmental Impact Assessment The students have first experiences in project exercises.
13	Inhalt Content	A: Lecture “Ecological aspects of infrastructure planning” Introduction to the environment factors and goods: geological ressources, species and biotopes, ecosystem functioning, Air quality, hydrosystems,impact of land use systems (especially agriculture and urbanisation, ecological landscape design. B: Seminar “Environmental impact assessment”

<table>
<tr><td></td><td></td><td>In the seminar students have the task to prepare a presentation and a paper about:

▪ Structuring and evaluation of environmental impacts of strategies and projects
▪ Legislative aspects
▪ Modelling and evaluation methods
▪ Tools for impact modelling
▪ Case study examples

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</td></tr>
<tr><td>14</td><td>Literatur/Lernmaterialien
Literature/Learning material</td><td>Information will be provided during the lectures
Additional material can be downloaded from ILIAS</td></tr>
<tr><td>15</td><td>Lehrveranstaltungen und Lehrformen
Course units and teaching methods</td><td>Ecological aspects of infrastructure planning, Lecture, 2 SWS, 3 LP
Environmental impact assessment, Seminar, 2 SWS, 3 LP</td></tr>
<tr><td>16</td><td>Abschätzung des Arbeitsaufwands
Estimation of workload</td><td><table><tr><th>Pos</th><th>unit</th><th>presence time</th><th>self study</th><th>project</th><th>Sum</th></tr><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></table></td></tr>
<tr><td rowspan="2">17a</td><td>Studienleistungen (unbenotet)
Course achievements (without mark)</td><td>USL-V: seminar paper</td></tr>
<tr><td>Studienleistungen (benotet)
Course achievements (with mark)</td><td></td></tr>
<tr><td>17b</td><td>Prüfungsleistungen (benotet)
Examination achievements (with mark)</td><td>Written examination 120 min. Weight 1.0 (closed book)</td></tr>
<tr><td>18</td><td>Grundlage für…
Basis for…</td><td></td></tr>
<tr><td>19</td><td>Medienform
Media</td><td></td></tr>
</table>