

2nd part of Semester 3, University Of Ljubljana

Spatial planning for flood protection						
Three weeks in December					5 ECTS Credit Points	
Mentor:	A. Prof.dr Andrej Pogačnik, pro.dr Mitja Brilly					
Tuition form & study load:	<i>Topic</i>	<i>Contact hours</i>			<i>Study load [hrs]</i>	<i>Examination/weight</i>
		<i>Lecture</i>	<i>Exercise</i>	<i>Workshop</i>		
	Introduction and to spatial planning, foundations of sustainable planning and overview of legal foundations of spatial planning	14		6	30	Written exam (20%)
	Planning with respect to flood protection on state, regional and local levels	10		15	55	Written exam & exercises (40%)
	Local and site planning with respect to flood control and protection and flood mitigation by spatial planning (total contact hours 70)	10		15	55 Total 140	Written exam & exercises (40%)
Pre-requisites:	Module ?					
Learning objectives:	<p>8. Overview of principles of sustainable planning on different scales</p> <p>9. Knowledge of the aims, methods and techniques of spatial planning</p> <p>10. Understand the problems of water management and flood control in the open channels and within settlements</p> <p>11. Ability for team work on regional, urban and local plans with respect to flood control</p> <p>12. Design flood control together with land use planning, planning the infrastructure, nature 2000 other protected areas</p>					
Content:	<p>Introduction and to spatial planning, foundations of sustainable planning and overview of legal foundations of spatial planning A. Pogačnik (UL) Overview of state of the art in spatial planning in EU countries. International planning. Planning on state level. Regional planning. Urban and landscape planning. Local and detail planning. Flood control on all level of spatial planning. Legal aspects of spatial planning. Comprehensive and sect oral planning. Sustainable planning. Examine of good practice.</p> <p>Planning with respect to flood protection on state, regional and local levels, Local and site planning with respect to flood control and protection and flood mitigation by spatial planning A. Pogačnik (UL) M. Brilly (UL) Methods and .techniques. Site analysis. Spatial data collection and procession. Attractiveness vulnerability mapping, Flood impact analysis, environmental impact analysis and spatial planning Methods and techniques of urban planning with respect to flood control. Project planning and flood protection by structural and non-structural measures. Workshop: Students work out together a plan of a region or town in terms of its development and flood control</p>					

Course materials:	Colley B.C. Practical manual of land development, Mc Graw Hill, 2005 De Chiara Time saver standards for regional development Fukuoka S., Floodplain risk management, Balkema AA, 1998
Didactics	Formal lectures; classroom and home workshops; field work on case study analysis
Additional reading:	EU commission: European spatial development and floods directives CESDP, POTSDAM FLOODS Directive 1999 Stiftel B., Watson C., Dialogues in urban and regional planning. Routledge Espon Atlas selection topics, 2005 Wegener M. Button K., Nijkamp P., Planning history and methodology, EE Pugusnik, UK selected topics, 2007 The World Bank, Environmental assessment source book, Washington, Chapters 1-3, 1991 EU flood research reports, AWARE, URBEM