Course title: Spatial Data Infrastructure

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Spatial Data Infrastructure		
Level:	Master		
Course Status:	Mandatory		
Year of Study:	Year 1, Semester I		
Number of Classes per Week:	2+2		
ECTS Credits:	6 ECTS		
Time /Location:	According to the Timetable		
Teacher:	Prof Ass. Dr. Ymer Kuka		
Contact Details:	ymer.kuka@uni-pr.edu		
Course Description:	In this course, students will explore theoretical and practical concepts of Spatial Data Infrastructures (SDIs). They will study fundamental concepts of SDI and the important factors that affect the development of SDI. Furthermore, techniques for design, implementation, management, and evaluation of SDIs will be explored. This course also includes practical and theoretical exercises relevant to current status of spatial data management and sharing, development of clearinghouse networks, SDI evaluation, and spatially enabled-society.		
Course Goals:	The aim of the course is that students should have acquired on completion of the course the following knowledge and skills: Knowledge and understanding		
Expected Learning Outcomes:	 After completion of this course, students should be able to do as following: Describe the importance of spatial data for planning, decision making and sustainable development Describe the current status/the problems for spatial data in terms as availability, accessibility, applicability and usability Describe the general the concepts and the aims for Spatial Data Infrastructure and the importance of data exchange In detail, explain and understand the main components of a SDI 		
Student Workload (should be in	compliance with student's Learning Outcomes)		
Activity	Hours Day/ Week Total		
Lectures	2 15 30		

Theomy/Loh Mort/ Evencies	2	1 -	20	
Theory/ Lab Work/Exercises Practical Work	2	15	30	
Consultations with the teaher				
Field Work	2		12	
Test, seminar paper	3	4	12	
Homework	1	10	10	
Self-study (library or home)	2	15	30	
Preparation for final exam	8	12	16	
Assessment time (test, quiz, final exam)	3	2	6	
Projects, presentations, etc.	8	2	16	
Total			150	
Teaching Methods:	- Lecture - Discussion du - Exercises Work in grou	-		
Assessment Methods:	In evaluation, partial evalua determined. C First Evaluatio Second Evalua Homework or Attendance 59	 Work in group In evaluation, the percentage of the attendance of each partial evaluation in the final evaluation must be determined. One of the ways of evaluation would be: First Evaluation: 15% Second Evaluation: 15% Homework or other engagement: 10% Attendance 5% Final Exam 55% Total 100% 		
Primary Literature:	2. Manuali zhv	1.Masser, I. (2007). Building European SDI, ESRI Press 2. Manuali zhvillimit te Infrastruktures se te dhenave Hapesinore, Bashkim Idrizi, Shkup 2019		
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Additional Literature:	 I. (2004). A national sp Journal of 25. Toomaniar (2011). Usi Spatial Dat in accorda Spatial Dat Williamsor (2003). De concept to Francis. Spatial Dat 	Assessing the world batial data clearingh Geographical Inforr n, A., Mansourian, A ing Balanced Scorec ca Infrastructures: a nce with INSPIRE, Ir ca Infrastructures Re n I.P., Rajabifard, A.	okbook 2012 in	
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Week 3:	Factors that influence the SDI development		
Week 4:	INSPIRE Directive		
Week 5:	Policy impact, influence and covergence		
Week 6:	SDI policy		
Week 7:	Existing SDI assesment		
Week 8:	Creation of meta data		
Week 9:	Clearinghouses of different generations.		
Week 10:	Inter-operability and International standards for these.		
Week 11:	Introduction to service composition.		
Week 12:	Cartographic aspects of geo-portals.		
Week 13:	SDI modelling and evaluation.		
Week 14:	The spatial activated the society ("spatial-enabled society").		
Week 15:	Study case		
Academic Policies and Code of Conduct			
We start and finish class on time.			
Tools used during class must be cleaned and stored away at the end of class.			
Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate)			

and hidden from view during class time.

Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.

Note | If a student has more than 3 class assignments evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.