CP234755 – Advanced	Planning	Information System
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Module Name	Advanced Planning Information System		
Module level, if applicable	Advance BoURP		
Code, if applicable	CP234755		
Subtitle, if applicable	-		
Course, if applicable	Advanced Planning Information System		
Semester(s) in which the module is taught	7 th Semester		
Person responsible for the module	Cahyono Susetyo, S.T., M.Sc., Ph.D		
Lecturer	Cahyono Susetyo, S.T., M.Sc., Ph.D		
Language	Indonesian, English		
Relation to curriculum	Electives Courses for undergraduate program in Urban and Regional Planning		
Type of teaching, contact hours	 M1: Group Discussion M3: Study Case M5: Cooperative Learning Lecture (Face to face lecture): 2.5 hours x 14 weeks 35 hours per semester 		
Workload	Elective (3 SKS) Class: 2.5 hours x 14 weeks = 35 hours Structured activities: 4 hours x 14 weeks = 56 hours Independent Study: 3 hours x 14 weeks = 42 hours Exam: 1.5 hours x 4 time = 6 hours Total = 133 hours		
Credit points	3 SKS ~ 4.8 ECTS		
Requirements according to the	Registered in this course		
examination regulations Recommended prerequisites	Minimum 80% attendance in this course		
Module objectives/intended learning	General Knowledge:		
outcomes	 Able to comprehend qualitative, quantitative, and spatial modeling (geographic information system) techniques and processes in urban and regional planning, as well as presentation skills. Able to apply planning formulation techniques and developt an alternative spatial models through qualitative and quantitative approaches in the form of scenarios for spatial pattern and structure of urban, regional, and coastal areas. 		

	 Able to analyze the potential and issue of both spatial and non-spatial contexts in urban, regional, and coastal areas through an analysis of interrelations between spatial and non-spatial aspects. Able to formulate planning concepts and direction plans through the study of strategic issues within the context of urban, regional, and coastal ares with an understanding of planning issues through observations and utilization of physical/spatial, social, economic, and environmental data. 		
	Spesific Knowledge:		
	1. Students are able to explain the concept and		
	implementation of remote sensing for planning purposes		
		nts are able to explain.	the concept of
	spatial data in Raster format and apply the		
	Raster Calculator Analysis		
	3. Students are able to explain and apply the		
		l Builder concept nts are able to explain a	and develop web-
		GIS applications	
Content	1. Raster format spatial data concept		
	2. Raster data analysis using "Raster Calculator"		
	3. Model builder concept		
	 Concept of satellite image data and remote consistent 		
	sensing 5. Characteristics of satellite image data		
	 Remote sensing principles and philosophy 		
	7. Spatial linear regression analysis		
	8. Web-GIS		
Study and examination requirements and forms of examination	9 asssessments:		
	Evaluation	Method	Weight
	1	Practice	15%
	2	Practice	15%
	3	Practice	10%
	4	Report	10%
	5	Practice	10%
	6	Report	10%
	7	Practice	10%
	8	Report	10%
	9	Report	10%
	1. Practice - week 3 2. Practice - week 5		
	2. Practi	ce - week 5	

	 Report - week 8 Practice - week 11 Report - week 12 Practice - week 13 Report - week 13 Report - week 14 	
Media employed	Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom.	
Reading list	 Main References: 1. Simth M., Goodchild M.F., Longley P.A. (2013) Geospatial Analysis, A Comprehensive Guide to Principles, Techniques and Software Tools. 2. Petit C., Cartwright W., Bishop I., Kowell K., Pullar D., Duncan D. (2008) Landscape Analysis and Visualisation. Spatial Models for Natural Resource Management and Planning. Springer Supporting References: 	