## CP234424 - Location and Spatial Analysis

Module Name	Location and Spatial Analysis			
Module level, if applicable	Intermediate BoURP			
Code, if applicable	CP234424			
Subtitle, if applicable	-			
Course, if applicable	Location and Spatial Analysis			
Semester(s) in which the module istaught	4 <sup>th</sup> Semester			
Person responsible for the module	Vely Kukinul Siswanto, ST, MT			
Lecturer	Dr. Ir. Eko Budi Santoso, Lic.rer.reg. Arwi Yudhi Koswara, S.T., M.T. Surya Hadi Kusuma, S.T., M.T. Fendy Firmansyah, S.T., M.T. Vely Kukinul Siswanto, ST, MT Rivan Aji Wahyu Dyan Syafitri, ST, MT			
Language	Indonesian, English			
Relation to curriculum	Compulsory Courses for undergraduate program in Urban and Regional Planning			
Type of teaching, contact hours	Lecture (Face to face lecture) 1.5 hours x 14 weeks per semester M1: Group discussion M3: Case study M6: Project-based learning			
Workload	Regular (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 theexamination regulations	Registered in this course. Minimum 80% attendance in this course			
Recommended prerequisites	-			
Module objectives/intended	General knowledge: 1. Students are able to understand the theoretical concepts of			

learning outcomes	regional studies, science, transpor systems, projects. 2. Students methods planning 3. Students regional spatial presenta 4. Students compile and quar spatial p	and urban planning in a coastal studies, spatial built environment tation systems, enviro economics, managen are able to understand in decision making in are able to understand and urban planning q modelling (geographic tion techniques. are able to apply pla alternative spatial / spa ntitative approaches in t atterns and spatial struct	spects of u science, p design, onmental nent stud spatial and the field of the techni ualitatively c informula atial mode the form o tures of ci	rban studies, regional lanning science, data infrastructure and management, social ies, and research / d non-spatial planning of regional and urban ques and processes of (, quantitatively, and ation systems) and ation techniques and ls through qualitative f scenarios for setting ties, regions, coasts.
	<ol> <li>Specific know</li> <li>Students spatial as</li> <li>Students and its p</li> <li>Students of city ar industria</li> <li>Students and urba (geograp</li> </ol>	vledge: are able to explain the spects in determining ac are able to explain the osition in regional and u are able to analyze the d regional activities suc l, commercial, social and are mastering the tech n planning qualitatively hic information systems	basic princ tivities. understan rban planr location o h as reside d economi niques and , quantitat s) and pres	tiples and concepts of ding of location theory ning. f several components ential, governmental, c facilities. I processes of regional ively, spatial modeling entation techniques.
Content	<ol> <li>Location definition and its implications, the scope of location and spatial analysis.</li> <li>Basic factors in determining location, problems in determining location.</li> <li>Classic location theory of Von Thunen, Weber, Losch, Christaller, Hotelling.</li> <li>Basic Location Analysis of industrial, commercial, and general facility services activity.</li> <li>Spatial interaction analysis.</li> </ol>			
Study and examination	4 assessments:			
of examination	Evaluation	Method	Weight	]
	1	Weekly presentation	10%	]
		Individual	10%	
		Performance		
	2	Midterm Exam	30%	-
	3	Final Group Task	20%	
		presentation)		
		Individual	10%	1
		Performance		

	4 Critical Review 20%
	<ol> <li>Evaluation I – week 2-14</li> <li>Evaluation II (exam) – week 7</li> <li>Evaluation III – week 16</li> <li>Evaluation IV – week 16</li> </ol>
Media employed	Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom, Arcgis, Sketchup, and Microsoft Excel.
Reading list	<ol> <li>Main References:         <ol> <li>Adisasmita, Rahardjo. 2008. Pengembangan Wilayah: Konsep dan Teori. Edisi 1. Graha Ilmu. Yogyakarta</li> </ol> </li> <li>Supporting References:         <ol> <li>Bendavid-Val, Avrom. 1991. Regional and Local Economic Analysis for Practitioners. Praeger Publishers. New York.</li> <li>Chan, Yupo. 2011. Location Theory and Decision Analysis: Analytics of Spatial Information Technology. Springer. New York.</li> <li>Djojodipuro, Marsudi. 1992. Teori lokasi. Lembaga Penelitian FE UI. Jakarta.</li> <li>Eiselt, G.A. Vladimir Marianov, Eds. 2011. Foundations of Location Analysis. Springer. New York.</li> <li>Robinson, Tarigan. 2005. Ekonomi Regional: Teori Dan Aplikasi. Edisi Revisi. PT. Bumi Aksara. Jakarta.</li> <li>Rushton, Gerard 1973. Optimal location of Facilities. Compress. Iowa.</li> <li>Rustiadi, Ernan dkk. 2009. Perencanaan dan Pengembangan Wilayah. Crestpent Press dan Yayasan Obor Indonesia. Jakarta</li> <li>Stefan Nickel, Justo Puerto. 2005. Location Theory: A Unified Approach. Springer Verlag. Berlin.</li> <li>Wibowo, Rudi, &amp; Soetriono, 2004. Konsep, Teori, dan Landasan Analisis Wilayah. Edisi Pertama. Bayumedia Publishing. Malang. lawa</li> </ol> </li> </ol>