Module designation	Geographic Information System in Planning
Semester(s) in which the module is	3 rd Semester (second year of undergraduate program)
taught	
Person responsible for the module	
Language	Indonesian
Relation to curriculum	Compulsory course for the Undergraduate Program in Urban and Regional Planning
Teaching methods	 Lecture Case study Problem-based learning Practicum Self-direct learning Small-group discussion Contextual instruction
Workload (incl. contact hours, self- study hours)	 (Estimated) Total workload: around 12 hours per week x 16 weeks = 192 hours Contact hours: Face to face teaching: 4 hours x 14 weeks = 64 hours Structured activity: 4 hours x 16 weeks = 64 hours Exam: 4 hours x 2 weeks = 8 hours Private study including examination preparation: Self-study hours: 4 hours x 16 weeks = 64 hours
Credit points	4 CU/6.67 ECTS
Required and recommended	Basic course
prerequisites for joining the module	
Module objectives/intended learning	Students understand the function of map as an input and analytical tool, and
outcomes	the importance of information for planning. With the knowledge, students are able to develop or think in the context of information system
Content	This course will introduce the need of spatial data for planning process (as an input, process as well as output). This course also consists of knowledge about information system (framework of information system, basic requirements, hadware and sotware interfaces, etc) for planning process. The principles of information system, from the importance of data/information, characteristics and position of data/information in spatial dimension and time, management aspects, as well as many kinds of data/information for different type of spatial planning will be introduce in this course. At the end of course, the student should have the capability for thinking in systematic framefork along the planning process. (GIS, Data Base Managemnt, etc) will be introduce, so the student can take the benefit of those development and implement it in planning process and development.
Examination forms	Mid Exam (25%), Final Exam (35%), Assignment (40%)
Study and examination requirements	Lectures, Group Assignments, and Individual Assignments (Problem Set), Quizzes
Reading list	 Cartography: Visualization of Geospatial Data; Kraak, Menno-Jan and Ormeling, Ferjan; Prentice Hall; 2nd Edition; 2003, [Pustaka Utama Prioritas-1] (KRA) Geomatics, Kavanagh, Barry F; Prentice Hall; 2003 (KAV) Geographic Information Systems: A Management Perspektive; Aronoff, Stan; WDL Publications, 1989 (ARO) Robinson, Arthur H., Morrison, Joel L., Muehrcke, Philip C., Kimerling, A. Jon., Guptill, Stephen C. Elements of Cartography. John Willey and Sons, Inc; 6th Edition; 1995. [Pustaka Utama Prioritas-2](AM)

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