Module Description

Module name:	Planning Information System
Module level, if applicable	-
Code, if applicable	
Subtitle, if applicable	-
Courses, if applicable	Planning Information System
Semester(s) in which the module is taught	3
Person responsible for the module	1. Dr. Eng. Ihsan, ST.,MT.; 2. Mukti Ali, ST.,MT., P.hD
Lecturer	1. Dr. Eng. Ihsan, ST.,MT.; 2. Dr. Eng. Abdul Rachmad Rasyid, ST., M.Si 3. Mukti Ali, ST.,MT., P.hD 4. Laode Asfan Mujahid, ST., MT 5. Gafar Lakatupa, ST., M.Eng
Language	Bahasa Indonesia
Relation to curriculum	This course is a compulsory subject which is presented in the second year/ third semester. This course belongs to a group of planning courses that focuses on students' understanding and arranging in spatial & non spatial data. Students be able to understand GIS for planning process.
Type of teaching, contact hours	The method used is self-directed learning method. A quiz will be given every meeting as soon as after the student have received course materials. The subject also has two kind of test which is given in the middle and the last semester.
Workload	This course consists of three credits in one meeting/ week= 330 minutes per week= 5280 minutes per semester (approximately 88 hours per semester).
Credit points	3
Requirements according to the examination regulations	The number of student attendance is at least 80% of the total meeting.
Recommended prerequisites	-
Module objectives/intended learning outcomes	CLO 1. Students are able to demonstrate a responsible attitude towards work in the field of spatial-based planning, mastering the theories and principles of GIS (supports ILO 7, P1-1/3 and ILO 1, P1-1/3); CLO 2. Students are able to work together on one goal and conduct studies and integrate spatial and non-spatial data (supports ILO 1 P1 2/3 and ILO 5, PI-1/2); CLO 3. Students are able to arrange spatial plan by using GIS based on theory, planning principles, and database management.

(supports ILO 10, PI-4/4, ILO 1, P1-3/3).

CLO 4. Students are able to understand land analysis techniques in the regional planning process, present research results using GIS application technology, compile and review reports on planning results, understand analytical techniques, and present them. (supports ILO 5, PI-2/2 and ILO 10, PI-3/4).

The following table is mapping of the ILO and CLO in this course:

	ILO 1	ILO 5	ILO 7	ILO 10
CLO 1	x		x	
CLO 2	x	x		
CLO 3	x			x
CLO 4		x		x

Content and relation to the studio works

This course supports the courses of Site Planning Studio, Urban Planning Studio, Regional Planning Studio. This course provides basic knowledge of database and digital mapping skill for student and support the studio activities. The assignment in this course is based on the case study of the Site Planning Studio that held in the same semester.

This course teaches about the function of GIS in the planning process, describing and integrating spatial and non-spatial data, database management, definition and method on spatial analysis, land analysis with allotment criteria, and using GIS in the planning process.

Study and examination requirements and forms of examination

This course will be graded as follows:
1. Midterms Exam (30%)
2. Final Exam (35%)
3. Quiz (15%)
4. Task (20%)

Percentage of Achievement	Grade	Conversion Value
85 – 100	A	4.00
80 - <85	A-	3.75
75 - < 80	B+	3.5
70 - < 75	B	3.0
65 - < 70	B-	2.75
60 - < 65	C+	2.5
50 - < 60	C	2.00
40 - < 50	D	1.00
< 40	E	0.00

Media employed

SIKOLA, Zoom

Reading list

1. Wiguna, Dede Prabowo. 2017. Sistem Informasi Geografi dan Penginderaan Jauh (Studi Kasus Analisis Keruangan Menggunakan ArcGIS dan Envi). Yogyakarta: Deepublish;
2. Irwansyah, Edy. 2013. Sistem Informasi Geografis: Prinsip Dasar dan Pengembangan Aplikasi. Yogyakarta: Digibooks;
3. Undang-Undang Republik Indonesia Nomor 4 Tahun 2011 tentang

	Informasi Geospasial; 4. Peraturan Pemerintah Repubik Indonesia Nomor 45 Tahun 2021 tentang Penyelenggaraan Informasi Geospasial; 5. Peraturan Pemerintah Republik Indonesia Nomor 8 Tahun 2013 tentang Ketelitian Peta Rencana Tata Ruang; 6. Adam, Asia. 2013. GIS Handbook For Municipalities. Kenya: United Nations Human Settlements Programme (UN-Habitat) 7. Eastman, J Ronald, Michele Fulk and James Toledano. 1993. The GIS Handbook. The University of Arizona dan Clark University