

1.3 Module Handbook of Geography Study Program

The Formal Curriculum Document Of The Geography Study Program

1.3.1 Page of Academic Senate Approval

THE CURRICULUM OF GEOGRAPHY IN BACHELOR DEGREE PROGRAM OF 2020

Upon the curricular formulation process by the developer team and the review by the expert team of the Educational and Instructional Institute (LP3) of UM, we hereby state that the Curriculum of the Bachelor Degree Program of 2020 is officially established and applicable starting from the academic year 2020/2021.

Malang, January 30, 2020

Dean of the Faculty of Social Sciences



Prof. Dr. Sumarmi, M.Pd.

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Foreword

The Geography study program is located at the Faculty of Social Sciences, State University of Malang, which was established in 2012 according to the letter of the Director of Institutional and Cooperation of the Directorate General of Higher Education, Ministry of Education and Culture Number 762 / E2.2 / 2012 dated 26 January 2012. The Geography study program's formation is a form of scientific development previously concentrated in the Geography Education study program. This development is in line with the university's vision and mission with a change in status to a university that focuses not only on pedagogy. Hence, the development of pure science within the faculty is indispensable.

In particular, the Geography study program was established as a forum for learning and developing the scientific field of Geography, which is expected to be able to form scholars with superior scientific competencies, understand scientific concepts including Physical Geography and Social Geography, implement Geography in research and be able to compete in the national scope.

Acknowledgments are conveyed to the parties involved until the preparation of this Self Evaluation draft can be completed. The parties involved include Dean of the Faculty of Social Sciences, the drafting team, and reviewers who have provided suggestions for improvements. Hopefully, this curriculum can give future benefits following the expected goals.

Malang, January 30, 2020
Head of the Department of Geography
State University of Malang



Dr. Didik Taryana, M.Si

1.3.2 Name and Specification of the Study Program

Higher Education Institution	: Universitas Negeri Malang
Study Program Executor	Geography Study Program Faculty of Social Sciences
Address and Phone Number	Jl. Semarang No. 5 Malang Phone. 0341 - 551312
Education Level	Bachelor's Degree
Accreditation and Decree on	A
Accreditation Number	682/SK/BAN-PT/Akred/S/IV/2019
Accreditation Effective Period	Until 2024-04-09
Type of Graduate Degree	Bachelor of Science - S.Si
Study Term	3.5–4 years/7–8 semesters
Credit Load	146 Credits (ECTS)

1.3.3 Reasoning and Curriculum Updating

Alteration to the curriculum of the Geography Study Program is underlain by a variety of things such as the results of tracer study, suggestions from stakeholders, professional associations, and scientific forums, science development trends, and the results of curriculum evaluations. Curriculum updating is recommended to include the 21st century abilities related to data literacy, technology literacy, and human literacy as well as the ability to perceive utilizations in the Industrial Revolution 4.0. It becomes mandatory for study programs to bring out the abilities which reflect the excellences of every higher education institution according to the vision and missions of the higher education institution as well as the distinctive qualities of the locality in which the higher education institution is established.

Science and technology, in tandem with the development in the professional world that requires skills of high levels, demands an update of the curriculum for it to be able to accommodate learner needs and interests in the higher education environment. Therefore, in order to answer tomorrow's challenges, UM and its study programs update the curriculum, which is now named kurikulum merdeka belajar or the freedom of learning curriculum. The freedom of learning curriculum of the Geography Study Program is designed in such a way that enables the graduates to possess innovativeness and have preparations into the workplace. This is aligned with the meaning of Kampus Merdeka or the Independent Campus, that is to provide challenges and opportunities to develop student creativity, capacity, personality, and need. Students will eventually have the ability to nurture independence in seeking and finding knowledge through the realities and dynamics in the fields like required aptitudes, real-world problems, social interactions, collaborations, self-management, performance demand, targets, and achievements.

1.3.4 Scientific Vision and Missions

a. Scientific Vision

To allow for geography development in order to sustainably plan and enhance local potentials and disaster mitigations by applying geospatial information technologies to produce graduates with capability and innovativeness.

b. Scientific Missions

- 1) To conduct basic, applied, and development research innovatively for geography development;
- 2) To conduct community services to support community self-sufficiency and environmental sustainability in reference to research findings.
- 3) To establish synergistic and productive cooperative relationships with alumni and other institutions for geography development.

1.3.5 Study Program Objectives

- a. To produce graduates who are with a broad insight in the field of geography and skillful in applying a variety of spatial analysis approaches, strategies, models, methods, and techniques.

- b. To produce innovative, high-quality scientific pieces of work in the field of geography which are included in international publications.
- c. To allow for the improvement of the life of the increasingly self-sufficient society and of the increasingly broadened capacity in the field of geography.
- d. To improve domestic and international institutional cooperations to increase the alumni capacity and the institutional relevance of geography to the science and technology development demand.

1.3.6 Graduate Profile

Graduates of the Bachelor's degree in Geography who have a mastery of geospatial information technologies for sustainably planning and developing local potentials and disaster mitigations and an ability to develop geography as geopreneurs.

1.3.7 Formulated Intended Learning Outcomes

- a. Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data;
- b. Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;
- c. Be able to analyze environmental and disaster phenomena through territorial, social, and economic surveys using geospatial technologies with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;
- d. Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty;
- e. Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context;
- f. Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques;
- g. Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users.

1.3.8 The Structure of the Freedom of Learning Curriculum of the Geography Study Program of 2020

Table 1.3.1 Basic Courses on Character Development (MDPK) 12 Credits (ECTS) of Geography Study Program

No	Code	Course	Cdts	Hrs	Semester	T	P	Prerequisite
1	UNIVUM6001	Education on Islam	3	3	2	x		
	UNIVUM6002	Education on Christianity						
	UNIVUM6003	Education on Catholicism						
	UNIVUM6004	Education on Hinduism						
	UNIVUM6005	Education on Buddhism						
	UNIVUM6006	Education on Confucianism						
	UNIVUM6014	Education on Spirituality						
2	UNIVUM6007	Pancasila Education	2	2	1	x		
3	UNIVUM6008	Civics Education	2	2	3	x		
4	UNIVUM6009	Indonesian for Academic Purposes	2	2	4	x		
5	UNIVUM6010	Innovation Management	3	3	5	x	x	
TOTAL			12	12				

Table 1.3.2 Courses on Subject Matter and Expertise (MKK) 98 Credits (ECTS) of Geography Study Program

No	Code	Course	Cdts	Hrs	Semester	T	P	Prerequisite
1	FISOU6001	Insights into Social Sciences	2	2	1	x		
2	FISOU6002	Social Praxis	2	3	4	x		FISOU6001
3	GEOGUM6001	Introduction to Geography	2	2	1	x		
4	GEOGUM6002	General Geology	2	2	1	x		
5	GEOGUM6003	Basic Geomorphology	2	2	2	x		
6	GEOGUM6004	Basic Geomorphology Practicum	1	2	2		x	
7	GEOGUM6005	Human Geography	2	2	1	x		
8	GEOGUM6006	Basic Cartography	2	2	1	x		
9	GEOGUM6007	Basic Cartography Practicum	1	2	1		x	
10	GEOGUM6008	Hydrology	2	2	1	x		
11	GEOGUM6009	Hydrology Practicum	1	2	1		x	
12	GEOGUM6010	Meteorology and Climatology	2	2	2	x		
13	GEOGUM6011	Meteorology and Climatology Practicum	1	2	1		X	
14	GEOGUM6012	Oceanography	2	2	2	x		GEOGUM6008
15	GEOGUM6013	Soil Geography	2	2	2	x		GEOGUM6002 GEOGUM6003
16	GEOGUM6014	Soil Geography Practicum	1	2	2		x	
17	GEOGUM6015	Basic Remote Sensing	2	2	1	x		GEOGUM6006
18	GEOGUM6016	Basic Remote Sensing Practicum	1	2	1		x	
19	GEOGUM6017	Biogeography	2	2	2	x		
20	GEOGUM6018	Economic Geography	2	2	3	x		GEOGUM6005
21	GEOGUM6019	Introduction to Regional Planning	2	2	3	x		
22	GEOGUM6020	Population Geography	2	2	3	x		
23	GEOGUM6021	Work-Study in the Field I	1	4	2		x	

24	GEOGUM6022	Land Surveying	2	2	3	x		GEOGUM6006
25	GEOGUM6023	Land Surveying Practicum	1	2	3	x		
26	GEOGUM6024	Photogrammetry	2	2	4	x		GEOGUM6015
27	GEOGUM6025	Photogrammetry Practicum	1	2	4		x	GEOGUM6016
28	GEOGUM6026	Mineralogy	2	2	3	x		
29	GEOGUM6027	Rural and Urban Geography	2	2	4	x		
30	GEOGUM6028	Geographic Information System	2	2	2	x		GEOGUM6006
31	GEOGUM6029	Geographic Information System Practicum	1	2	2		x	
32	GEOGUM6030	Regional Geography	2	2	3	x		
33	GEOGUM6031	Tourism Geography	2	2	3	x		
34	GEOGUM6032	English for Professional Purposes	2	2	1	x		
35	GEOGUM6033	Statistics	2	2	2	x		
36	GEOGUM6034	Environmental Geography	2	2	3	x		
37	GEOGUM6036	Land Conservation	2	2	4	x		GEOGUM6013
38	GEOGUM6037	Land Conservation Practicum	1	2	4		x	GEOGUM6014
39	GEOGUM6038	Thematic Cartography	2	2	3	x		GEOGUM6006
40	GEOGUM6039	Thematic Cartography Practicum	1	2	3		x	GEOGUM6007
41	GEOGUM6040	Work-Study in the Field II	1	4	4		x	GEOGUM6021
42	GEOGUM6041	Research Methods in Geography	3	3	5	x		
43	GEOGUM6042	Land Resources Evaluation	2	2	5	x		GEOGUM6008, GEOGUM6036
44	GEOGUM6043	Land Resources Evaluation Practicum	1	2	5		x	GEOGUM6009, GEOGUM6037
45	GEOGUM6044	Rural and Urban Planning	2	2	5	x		GEOGUM6019, GEOGUM6027
46	GEOGUM6046	Entrepreneurship	2	2	4	x		
47	GEOGUM6047	Disaster Geography	2	3	5	x		
48	GEOGUM6048	Work-Study in the Field III	1	4	6		x	GEOGUM6040
49	GEOGUM6080	Applied Remote Sensing	2	2	4	x	x	GEOGUM6033 GEOGUM6015
50	GEOGUM6100	Bachelor's Thesis	6	4	8	x		GEOGUM6041
51	UKKUM6090	Student Community Engagement	4	4	7		x	
52	UPKLUM6090	Fieldwork Practice	4	12	7		x	
TOTAL			106	135				

Table 1.3.3 Elective Courses and Transdisciplinary Courses (MPPD) of Geography Study Program

No	Code	Course	Cdts	Hrs	Semester	T	P	Prerequisite
1	GEOGUM6074	Agricultural Geography	2	2	3	x		
2	GEOGUM6075	Cultural Geography	2	2	3	x		
3	GEOGUM6053	Physical Geography Research Methods (M1)	3	3	4		x	
4	GEOGUM6062	Research Methods in Population (M2)	3	3	4		x	
5	GEOGUM6068	Research Methods in Tourism (M3)	3	3	4		x	
6	GEOGUM6078	Transport Geography	2	2	4	x		
7	GEOGUM6049	Geohydrology (M1)	2	2	5	x		

8	GEOGUM6050	Geohydrology Practicum (M1)	1	2	5		x	
9	GEOGUM6051	Hydrometeorology (M1)	2	2	5	x		
10	GEOGUM6052	Hydrometeorology Practicum (M1)	1	2	5		x	
11	GEOGUM6054	Structural and Process Geology (M1)	3	3	5	x	x	
12	GEOGUM6060	Employment Need Planning (M2)	3	3	5	x	x	
13	GEOGUM6061	Population Dynamics (M2)	3	3	5	x	x	
14	GEOGUM6064	Population Information System (M2)	3	3	5	x	x	
15	GEOGUM6067	Evaluation of Tourism Potential (M3)	3	3	5	x		
16	GEOGUM6069	Tourism Economics (M3)	3	3	5	x		
17	GEOGUM6072	Tourism Information System (M3)	3	3	5	x	x	
18	GEOGUM6084	Terrestrial Survey* (M1)	2	2	5	x	x	
19	GEOGUM6085	Hydrographic Mapping (M1)	2	2	5	x	x	
20	GEOGUM6088	Analysis of Migrant Workers* (M2)	2	2	5	x	x	
21	GEOGUM6089	Fertility Survey and Analysis (M2)	2	2	5	x	x	
22	GEOGUM6092	Tourism Management* (M3)	2	2	5	x	x	
23	GEOGUM6093	Tourist Attraction Development (M3)	2	2	5	x		
24	GEOGUM6035	Spatial Statistics	3	3	6	x	x	
25	GEOGUM6055	Watershed Management (M1)	3	3	6	x	x	
26	GEOGUM6056	Water Quality (M1)	2	2	6	x		
27	GEOGUM6057	Water Quality Practicum (M1)	1	2	6		x	
28	GEOGUM6058	Potamology and Limnology (M1)	2	2	6	x		
29	GEOGUM6059	Potamology and Limnology Practicum (M1)	1	3	6		x	
30	GEOGUM6063	Engineering Demographics Application (M2)	3	3	6	x	x	
31	GEOGUM6065	Population Policy (M2)	3	3	6	x		
32	GEOGUM6066	Family Planning Study (M2)	3	3	6	x		
33	GEOGUM6070	Tourism Development Planning (M3)	3	3	6	x	x	
34	GEOGUM6071	Tourism Marketing (M3)	3	3	6	x		
35	GEOGUM6073	Ecotourism (M3)	3	3	6	x		
36	GEOGUM6076	Regional Development Planning	2	2	6	x		
37	GEOGUM6077	Industrial Geography	2	2	6	x		
38	GEOGUM6079	Regional Potential Analysis	3	3	6	x		
39	GEOGUM6081	Human Resources Development	3	3	6	x		
40	GEOGUM6082	Applied ESL	3	3	6	x	x	
41	GEOGUM6083	Sustainable Tourism	2	2	6	x		
42	GEOGUM6086	Disaster Geospatial Technology* (M1)	2	2	6	x	x	
43	GEOGUM6087	Regional Climate Study (M1)	2	2	6	x		

44	GEOGUM6090	Evaluation of Population Poverty*(M2)	2	2	6	x	x	
45	GEOGUM6091	Mortality Measurement and Analysis (M2)	2	2	6	x	x	
46	GEOGUM6094	Tourism Impact Evaluation* (M3)	2	2	6	x	x	
47	GEOGUM6095	Cultural Tourism* (M3)	2	2	6	x		
Total			111	116				

Note:

M1 : Interest in Physical Geography

M2 : Interest in Population Study

M3 : Interest Tourism and Regional Studies (TAMBAHAN)

Total Credits (ECTS) Required to Graduate from Bachelor's Degree in Geography Program = MDPK + MWK + MPPD = 146 Credits (ECTS)

Course Groups	Credits (ECTS)	%
Basic Courses on Character Development (MDPK)	12	8
Mandatory Courses on Subject Matter (MWK)	98	68
Elective Courses and Transdisciplinary Courses (MPPD)	36	24
Total Credits (ECTS)	146	100

Note:

W : Mandatory Course, P: Elective Course, WM: Mandatory Interest Course, PP: Study Program Level Elective Course, PM: Elective Interest Course

Total MPPD courses a student must pass : 36 Credits (ECTS)

Total number of courses a student must pass : 98 Credits (ECTS)

Elective courses a student must pass : 12 Credits (ECTS)

1.3.9 Subjects Serving per Semester

Table 1.3.4 Subjects Serving per Semester of Geography Study Program

SEMESTER 1

No	Code	Course	Semester	Cdts	Hrs	Type
1	FISOU6001	Insights into Social Sciences	1	2	2	Mandatory
2	GEOGUM6001	Introduction to Geography	1	2	2	Mandatory
3	GEOGUM6002	General Geology	1	2	2	Mandatory
4	GEOGUM6005	Human Geography	1	2	2	Mandatory
5	GEOGUM6006	Basic Cartography	1	2	2	Mandatory
6	GEOGUM6007	Basic Cartography Practicum	1	1	2	Mandatory
7	GEOGUM6008	Hydrology	1	2	2	Mandatory
8	GEOGUM6009	Hydrology Practicum	1	1	2	Mandatory
9	GEOGUM6011	Meteorology and Climatology Practicum	1	1	2	Mandatory
10	GEOGUM6015	Basic Remote Sensing	1	2	2	Mandatory
11	GEOGUM6016	Basic Remote Sensing Practicum	1	1	2	Mandatory
12	GEOGUM6032	English for Professional Purposes	1	2	2	Mandatory
13	UNIVUM6007	Pancasila Education	1	2	2	Mandatory
Total Credits (ECTS)				22		

SEMESTER 2

No	Code	Course	Semester	Cdts	Hrs	Type
1	GEOGUM6003	Basic Geomorphology	2	2	2	Mandatory
2	GEOGUM6004	Basic Geomorphology Practicum	2	1	2	Mandatory
3	GEOGUM6010	Meteorology and Climatology	2	2	2	Mandatory
4	GEOGUM6012	Oceanography	2	2	2	Mandatory
5	GEOGUM6013	Soil Geography	2	2	2	Mandatory
6	GEOGUM6014	Soil Geography Practicum	2	1	2	Mandatory
7	GEOGUM6017	Biogeography	2	2	2	Mandatory
8	GEOGUM6021	Work-Study in the Field I	2	1	1	Mandatory
9	GEOGUM6028	Geographic Information System	2	2	2	Mandatory
10	GEOGUM6029	Geographic Information System Practicum	2	1	2	Mandatory
11	GEOGUM6033	Statistics	2	2	2	Mandatory
12	UNIVUM6001	Education on Islam	2	3	3	Mandatory
13	UNIVUM6002	Education on Christianity	2	3	3	Mandatory
14	UNIVUM6003	Education on Catholicism	2	3	3	Mandatory
15	UNIVUM6004	Education on Hinduism	2	3	3	Mandatory
16	UNIVUM6005	Education on Buddhism	2	3	3	Mandatory
17	UNIVUM6006	Education on Confucianism	2	3	3	Mandatory
18	UNIVUM6014	Education on Spirituality	2	3	3	Mandatory
Total Credits (ECTS)				21		

SEMESTER 3

No	Code	Course	Semester	Cdts	Hrs	Type
1	GEOGUM6018	Economic Geography	3	2	2	Mandatory
2	GEOGUM6019	Introduction to Regional Planning	3	2	2	Mandatory
3	GEOGUM6020	Population Geography	3	2	2	Mandatory
4	GEOGUM6022	Land Surveying	3	2	2	Mandatory
5	GEOGUM6023	Land Surveying Practicum	3	1	2	Mandatory
6	GEOGUM6026	Mineralogy	3	2	2	Mandatory
7	GEOGUM6030	Regional Geography	3	2	2	Mandatory
8	GEOGUM6031	Tourism Geography	3	2	2	Mandatory
9	GEOGUM6034	Environmental Geography	3	2	2	Mandatory
10	GEOGUM6038	Thematic Cartography	3	2	2	Mandatory
11	GEOGUM6039	Thematic Cartography Practicum	3	1	2	Mandatory
12	GEOGUM6074	Agricultural Geography	3	2	2	Elective
13	GEOGUM6075	Cultural Geography	3	2	2	Elective
14	UNIVUM6008	Civics Education	3	2	2	Mandatory
Total Credit				22		

SEMESTER 4

No	Code	Course	Semester	Cdts	Hrs	Type
1	FISOUM6002	Social Praxis	4	2	3	Mandatory
2	GEOGUM6024	Photogrametry	4	2	2	Mandatory
3	GEOGUM6025	Photogrametry Practicum	4	1	2	Mandatory
4	GEOGUM6027	Rural and Urban Geography	4	2	2	Mandatory
5	GEOGUM6036	Land Conservation	4	2	2	Mandatory

6	GEOGUM6037	Land Conservation Practicum	4	1	2	Mandatory
7	GEOGUM6040	Work-Study in the Field II	4	1	1	Mandatory
8	GEOGUM6046	Entrepreneurship	4	2	2	Mandatory
9	GEOGUM6053	Physical Geography Research Methods (M1)	4	3	3	Elective
10	GEOGUM6062	Research Methods in Population (M2)	4	3	3	Elective
11	GEOGUM6068	Research Methods in Tourism (M3)	4	3	3	Elective
12	GEOGUM6078	Transport Geography	4	2	2	Elective
13	GEOGUM6080	Applied Remote Sensing	4	2	2	Mandatory
14	UNIVUM6009	Indonesian for Academic Purposes	4	2	2	Mandatory
Total Credits (ECTS)			Mandatory	17		
			Elective	5		

SEMESTER 5

No	Code	Course	Semester	Cdts	Hrs	Type
1	GEOGUM6041	Research Methods in Geography	5	3	3	Mandatory
2	GEOGUM6042	Land Resources Evaluation	5	2	2	Mandatory
3	GEOGUM6043	Land Resources Evaluation Practicum	5	1	2	Mandatory
4	GEOGUM6044	Rural and Urban Planning	5	2	2	Mandatory
5	GEOGUM6047	Disaster Geography	5	2	3	Mandatory
6	GEOGUM6049	Geohydrology (M1)	5	2	2	Elective
7	GEOGUM6050	Geohydrology Practicum (M1)	5	1	2	Elective
8	GEOGUM6051	Hydrometeorology (M1)	5	2	2	Elective
9	GEOGUM6052	Hydrometeorology Practicum (M1)	5	1	2	Elective
10	GEOGUM6054	Structural and Process Geology (M1)	5	3	3	Elective
11	GEOGUM6060	Employment Needs Planning (M2)	5	3	3	Elective
12	GEOGUM6061	Population Dynamics (M2)	5	3	3	Elective
13	GEOGUM6064	Population Information System (M2)	5	3	3	Elective
14	GEOGUM6067	Evaluation of Tourism Potential (M3)	5	3	3	Elective
15	GEOGUM6069	Tourism Economics (M3)	5	3	3	Elective
16	GEOGUM6072	Tourism Information System (M3)	5	3	3	Elective
17	GEOGUM6084	Terrestrial Survey* (M1)	5	2	2	Elective
18	GEOGUM6085	Hydrographic Mapping (M1)	5	2	2	Elective
19	GEOGUM6088	Analysis of Migrant Workers*(M2)	5	2	2	Elective
20	GEOGUM6089	Fertility Survey and Analysis (M2)	5	2	2	Elective
21	GEOGUM6092	Tourism Management*(M3)	5	2	2	Elective
22	GEOGUM6093	Tourist Attraction Development (M3)	5	2	2	Elective

23	UNIVUM6010	Innovation Management	5	3	3	Mandatory
Total Credits (ECTS)			Mandatory	13		
			Elective	11		

SEMESTER 6

No	Code	Course	Semester	Cdts	Hrs	Types
1	GEOGUM6035	Spatial Statistics	6	3	3	Elective
2	GEOGUM6048	Work-Study in the Field III	6	1	1	Mandatory
3	GEOGUM6055	Watershed Management (M1)	6	3	3	Elective
4	GEOGUM6056	Water Quality (M1)	6	2	2	Elective
5	GEOGUM6057	Water Quality Practicum (M1)	6	1	2	Elective
6	GEOGUM6058	Potamology and Limnology (M1)	6	2	2	Elective
7	GEOGUM6059	Potamology and Limnology Practicum (M1)	6	1	3	Elective
8	GEOGUM6063	Engineering Demographic Applications (M2)	6	3	3	Elective
9	GEOGUM6065	Population Policy (M2)	6	3	3	Elective
10	GEOGUM6066	Family Planning Study (M2)	6	3	3	Elective
11	GEOGUM6070	Tourism Development Planning (M3)	6	3	3	Elective
12	GEOGUM6071	Tourism Marketing (M3)	6	3	3	Elective
13	GEOGUM6073	Ecotourism (M3)	6	3	3	Elective
14	GEOGUM6076	Regional Development Planning	6	2	2	Elective
15	GEOGUM6077	Industrial Geography	6	2	2	Elective
16	GEOGUM6079	Regional Potential Analysis	6	3	3	Elective
17	GEOGUM6081	Human Resources Development	6	3	3	Elective
18	GEOGUM6082	Applied ESL	6	3	3	Elective
19	GEOGUM6083	Sustainable Tourism	6	2	2	Elective
20	GEOGUM6086	Disaster Geospatial Technology* (M1)	6	2	2	Elective
21	GEOGUM6087	Regional Climate Study (M1)	6	2	2	Elective
22	GEOGUM6090	Evaluation of Population Poverty*(M2)	6	2	2	Elective
23	GEOGUM6091	Mortality Measurement and Analysis (M2)	6	2	2	Elective
24	GEOGUM6094	Tourism Impact Evaluation* (M3)	6	2	2	Elective
25	GEOGUM6095	Cultural Tourism* (M3)	6	2	2	Elective
Total Credits (ECTS)			Mandatory	1		
			Elective	22		

SEMESTER 7

No	Code	Course	Semester	Cdts	Hrs	Type
1	UKKNUM6090	Student Community Engagement (KKN)	7	4	4	Mandatory
2	UPKLUM6090	Fieldwork Practice (PKL)	7	4	12	Mandatory
Total Credits (ECTS)				8		

SEMESTER 8

No	Code	Course	Semester	Cdts	Hrs	Type
1	GEOGUM6100	Undergraduate Thesis	8	6	18	Mandatory
Total SKS				6		

1.3.10 Module Description**Table 1.3.5 Module Description of Geography Study Program**

Education on Islam					
module code UNIVUM6001	student workload 123 hours	Credits (ECTS) 4.92	semester 1 or 2	frequency each semester	duration 1 semester
1	Types of courses Lectures	contact hours 35 hours	independent study 88 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims Students are able to: analyze the concept and theory of Allah and human relations in a responsible, logical, critical, and systematic manner, and apply the results of the analysis in living in society analyze sources and dimensions of Islamic law with critical and logical contributions in improving the quality of life, and apply the analysis in living in society evaluate the application of morals and science as considerations for making appropriate decisions in resolving contemporary issues in the environment Contents: Doctrines of Faith Humans in the Conception of Islam Formation Pillars for a Good Character Islamic Law and Differences in Sects (Mazhab) Marriage as a Facility for Achieving a Blessed Family Islamic Morals and Its Role in Societal Development Dynamics of Islamic Culture and Civilization Corruption and Its Eradication in the Islamic Viewpoint Economic System and Work Ethics in Islam Politics and National Appreciation in the Islamic Perspective Modern Islamic Movements and Organizations in Indonesia Jihad, Religious Radicalism, and Moderate Muslims Women and Feminism in the Islamic Perspective				
5	Teaching methods Lectures, mentoring, worship development activities, Al Quran reading instruction				
6	Assessment methods Worship and Al Quran reading development activities Volunteer work Participation Structured assignments Midterm examination Final examination				
7	This module is used in the following degree programmes as well				

	All S1 Degree
8	Responsibility for module Dr. Lilik Nur Kholidah, M.Pd.I
9	Other information, references Nasih, A Munjin. dkk. 2016. Menyemai Islam Ramah di Perguruan Tinggi. Malang: Dream Litera Nata, Abudin. 2002. Akhlaq Tasawuf. Jakarta: Rajawali Press Shihab, Quraish.1996. Wawasan Al-Qur'an. Bandung: Mizan Tim Dosen PAI UM, 2018. Pendidikan Islam Transformatif: Menuju Pengembangan Pribadi Berkarakter. Malang: Dream Litera. Berita di internet yang relevan

Education on Catholicism					
module code	student workload	Credits (ECTS)	semester	frequency	duration
UNIVUM6001	123 hours	4.92	1 or 2	each semester	1 semester
1	Types of courses Lectures	contact hours 35 hours	independent study 88 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims Students are able to: analyze the presence of the blessings of Allah, as well as the origins and living objectives of humanity as the image of Allah who is faithful to the Holy Trinity of Allah analyze the presence of Jesus as divine revelation and executor for the salvation of humanity exhibit the attitudes and behaviors of a person with faith and pure conscience present oneself for mutual prosperity based on the Pancasila Contents: The call to Allah through the Lord Jesus The role of Jesus in family living The role of Jesus in living history Instilling the five tasks of the church and the seven sacraments Application of religious living in harmony with the spirit of Pancasila				
5	Teaching methods Lectures				
6	Assessment methods 25% Assignments 25% Midterm examination 50% Final examination				
7	This module is used in the following degree programmes as well All S1 Degree				
8	Responsibility for module Dr. Paulus Teguh Kusbiantoro , Lic. Th.				
9	Other information, references Magnis-Suseno, F. 2019. Katolik Itu Apa? Sosok – Ajaran – Kesaksiannya. Yogyakarta: Kanisius. Magnis-Suseno, F. 2004. Menjadi Saksi Kristus di Tengah Masyarakat Majemuk. Jakarta: Obor.				

	<p>Koferensi Wali Gereja Indonesia. 2009. Kompendium Katekismus Gereja Katolik. Yogyakarta: Kanisius</p> <p>Heuken, A. 2002. Spiritualitas Kristiani: Pemekaran Hidup Rohani Selama Dua Puluh Abad. Jakarta: Yayasan Cipta Loka Caraka.</p> <p>Bieger, E. 1997. Das Kirchenjahr. Zum Nachschlagen. Entstehung – Bedeutung – Brauchtum, Kevelaer, Verlag Butzon & Bercker.</p> <p>Departemen Dokumentasi dan Penerangan KWI, 2009, Dokumen Konsili Vatikan, Jakarta: Obor.</p> <p>Ratzinger, J.K. 1997. Vom Wiederauffinden der Mitte. Grundorientierungen, Freiburg im Breisgau, Verlag Herder.</p> <p>Departemen Dokumentasi dan Penerangan KWI. 2003. Ecclesia de Eucharistia: Ekaristi dan Hubungannya dengan Gereja. Jakarta: Dokpen KWI.</p> <p>Departemen Dokumentasi dan Penerangan KWI. 2008. Yesus Kristus Pembawa Air Hidup: Sebuah Refleksi Kristiani Tentang Newage, Jakarta: Dokpen KWI.</p> <p>Departemen Dokumentasi dan Penerangan KWI. 2018. Gaudete Et Exultate. Bersukacita Dan Bergembiralah. Jakarta: Dokpen KWI.</p> <p>Departemen Dokumentasi dan Penerangan KWI. 1995. De Liturgia Romana Et Inculturatione: Liturgi Romawi dan Inkulturasi. Jakarta: Dokpen KWI.</p>
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Education on Christianity					
module code UNIVUM6001	student workload 123 hours	Credits (ECTS) 4.92	semester 1 or 2	frequency each semester	duration 1 semester
1	Types of courses Lectures	contact hours 35 hours	independent study 88 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims Students are able to: 1. analyze properly the concepts, objectives, and basic principles of the Christian faith according to what is stated in the Bible 2. analyze various phenomena in life in the perspective of the faith 3. develop creatively attitudes and behaviors that foster faith and confidence in Allah 4. apply ethics of social living according to Christian teachings in national and cultural living Contents: Declaration of Allah Recognition of Allah The Trinity of Allah Faith in the Christian perspective Persekutuan				
5	Teaching methods Lectures, project-based learning, volunteer work				
6	Assessment methods 20% Active participation 20% Assignments 30% Midterm examination 30% Final examination				
7	This module is used in the following degree programmes as well				

	All S1 Degree
8	Responsibility for module Leonardes Agustiadi, M.Th.
9	Other information, references Alkitab, LAI http://lldikti12.ristekdikti.go.id/2016/12/06/buku-wajib-mkdu-terbitan-ditjen-belmawa-kemenristekdikti-2016.html Hadiwijono, Harun. 1990. Iman Kristen. Jakarta: PT. BPK Gunung Mulia. R. C. Sproul. 2008. Defending Your Faith. Malang: SAAT. Widjaya, Bambang H. 2014. Pola Hidup dalam Kerajaan Allah. Surabaya: Yayasan Masa Depan CeraH. Budijanto, Bambang dkk. 2018. Dinamika Spiritualitas Generasi Muda Kristen Indonesia. Jakarta: Yayasan Bilangan Research Center. Prince, Derek. 1993. Doa dan Puasa untuk Menentukan Masa Depan. Jakarta: Yayasan Perkabaran Injil Immanuel. Brill, J. Wesley. 1996. Dasar yang Teguh. Bandung: Yayasan Kalam Hidup. Halim, Makmur. 2010. Diktat Ilmu Agama Suku, Batu-Malang: STT Institiut Injil Indonesia. Warren, Rick. 2005. The Purpose Driven Life. Malang: Gandum Mas. Relevant journal articles.

Education on Hinduism					
module code UNIVUM6001	student workload 123 hours	Credits (ECTS) 4.92	semester 1 or 2	frequency each semester	duration 1 semester
1	Types of courses Lectures	contact hours 35 hours	independent study 88 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims Students are able to: understand the objectives and functions of Education on Hinduism in the formation of character and personality analyze the essence of the Hindu religion from the perspectives of Hindu religion development, Hindu legal sources, Hindu leadership, and Hindu ethical teachings demonstrate attitudes and behaviors that reflect the instilling of Hindu teachings communicate Hindu teachings to public discourse in resolving social and public issues through popular approaches or scientific formulations apply the values in Hindu teachings in creating professionalism and integrity, and maintaining the diversity of Indonesia Contents: Objectives and functions of the General Course of Education on Hinduism in forming the basis of a humane personality for students Essence of the Hindu religion from the perspectives of Hindu developmental history, theology, legal sources, leadership, and moral structure Instilling of Hindu teachings through art and religious practices Creation of conscience and harmony in developing professionalism and maintaining diversity.				
5	Teaching methods Lectures, discussions, presentations, project-based learning (video) lectures, discussions, presentations, project-based learning (video) - (Asynronus and Synchronus)				

6	Assessment methods Assignments (individual/group) in paper form (15%) Presentations (20%) Midterm examination (20%) Contributions to group discussion activities (10%) Final examination (20%) Peer review (5%) Attitude (10%)
7	This module is used in the following degree programmes as well All S1 Degree
8	Responsibility for module Dr. I Nengah Parta, M.Si
9	Other information, references Bahan Ajar Mata Kuliah Umum Pendidikan Agama Hindu. 2016. Jakarta: Direktorat Jenderal Pembelajaran dan Kemahasiswaan Kementerian Riset, Teknologi dan Pendidikan Tinggi Donder, I Ketut. 2001. Brahma Widya: Teologi Kasih Semesta. Surabaya: Paramita. Maswinara, I Wayan. 1999. Sistem Filsafat Hindu (Sarva Darśana Saṁgraha). Surabaya: Paramita. Mehta, Rohit. 2007. The Call of The Upanisad. Alih Bahasa Oleh Tjok Rai Sudharta. Denpasar: Sarad. Prakaś Saraswati, Swāmī Satya. 1996. Patanjali Rāja Yoga. Alih Bahasa Oleh: Polak, J.B.A.F. Surabaya: Paramita Pudja, Gede., Rai Sudharta. 1977. Manawa Dharma Sastra. Jakarta: Junasco. Vivekananda, Svami. 2001. Wedānta: Gema Kebebasan. Alih Bahasa oleh Kamajaya, I Gede., Sanjaya, Oka. Surabaya: Paramita. Zaehner, R.C. 1992. Kebijaksanaan Dari Timur: Beberapa Aspek Pemikiran Hinduisme. Jakarta: Gramedia Pustaka Utama.

Education on Buddhism					
module code	student workload	Credits (ECTS)	semester	frequency	duration
UNIVUM6001	123 hours	4.92	1 or 2	each semester	1 semester
1	Types of courses Lectures	contact hours 35 hours	independent study 88 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims Students are able to: <ul style="list-style-type: none"> . analyze the objectives and functions of Education on Buddhism in forming character and possessing a noble nature . analyze the contents of the Tripitaka holy book as the source of Buddhist religious teachings . demonstrate attitudes and behaviors that reflect the positive values of the development history of Indonesian Buddhism as well as Buddhism in the world . demonstrate attitudes and behaviors that respect other religions based on the teachings of compassion according to principles of moral ethics (catur paramitha) . apply the principles of leadership taught by the Buddha (Dasa Raja Dhamma) . develop the instilling of religious teachings through religious practices (athasila) Contents: The holy book of Tripitaka				

	Positive values in the development of Buddhism Pillars of Asoka, Bhineka Tunggal Ika, Dhammapada (183) The leadership principles of the Buddha / Dasa Raja Dhamma Catur Paramitha Athasila / Buddhist Pancasila Dana Paramitha (Becoming a generous person) Sadha / Faith The One and Supreme God (Udana 8 Chapter III) Buddha, Dhamma, and Sangha Formation of character and nature with Intelligent ideas Broad insights A sincere heart
5	Teaching methods Lectures, discussions, student presentations - (Asynronus and Synchronus)
6	Assessment methods Active participation Worship development activities Structured assignments Midterm examination Final examination
7	This module is used in the following degree programmes as well All S1 Dgree
8	Responsibility for module Yatmi, S.Ag,M.Pd.B
9	Other information, references Kirthisinghe, Buddhadasa P. 1995. Agama Buddha dan Ilmu Pengetahuan Materi Kuliah Sejarah Perkembangan Agama Buddha. 2003. Jakarta: Dewi Kayana Abadi. Diputhesa, Oka. 2010. Sutta Pittaka Dhiga Nikaya. Jakarta: Danau Batur Tjeng Ing, M. William. 2002. Kamus Sanskrit Inggris Indonesia. Jakarta: Lembaga Penerjemah Kitab Suci Tripitaka Bodhi, Bhikku. 2009. Tripitaka: Tematik Sabda Buddha dalam Kitab Suci Pali Kaharudin. Pandit Jinaratana PERVITUB I. 2004. Rangkaian Dhamma. Dhammananda, Sri Karaniya. 2004. Keyakinan Umat Buddha

Education on Spirituality					
module code	student workload	Credits (ECTS)	semester	frequency	duration
UNIVUM6001	workload 123 hours	4.92	1 or 2	each semester	1 semester
1	Types of courses Lectures	contact hours 35 hours	independent study 88 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims Students are able to: analyze living by the One and Supreme God demonstrate spiritual attitudes and behaviors according to the belief in the One and Supreme God				

	<p>resolve issues regarding fields of discipline based on teachings of belief in the One and Supreme God</p> <p>Contents:</p> <p>Objectives and functions of spiritual education in the formation of personality</p> <p>Development history of the belief in the One and Supreme God</p> <p>Theories and presence of the One and Supreme God</p> <p>Holy books as the source of law</p> <p>Relations of God and mankind</p> <p>Principle and essence of belief in the One and Supreme God</p> <p>Communication, tolerance, and interaction between communities with belief in the One and Supreme God</p> <p>Instilling of the belief in the One and Supreme God</p> <p>Human nature according to teachings of belief in the One and Supreme God</p>
5	<p>Teaching methods</p> <p>Lectures, student presentations, class discussions -(Asynronus and Synchronus)</p>
6	<p>Assessment methods</p> <p>Assignment 1 15 %</p> <p>Assignment 2 20 %</p> <p>Midterm examination 30 %</p> <p>Final examination 35 %</p>
7	<p>This module is used in the following degree programmes as well</p> <p>All S1 Degree</p>
8	<p>Responsibility for module</p> <p>Mohammad Djayusman , SH., MM.</p>
9	<p>Other information, references</p> <p>Tim Dosen Pendidikan Kepercayaan UM, 2019. Pendidikan Kepercayaan : Menciptakan Manusia yang selalu memperindah dan menyelamatkan hidup dan kehidupan yang serba baik dan indah bagi yang ada di bumi ini.</p> <p>Arifin, Anwar, 1984, Strategi Komunikasi: Suatu Pengantar Ringkas, Bandung: Armico.</p> <p>Bandung: PT Remaja Rosdakarya</p> <p>Bakker, Anton, Ont of ogi Metafisika Umum, Filsafat Pengada dan Dasar-Dasar Kenyataan, Yogyakarta: Kanisius, 2002.</p> <p>Bakker, Anton, Metode-Metode Filsafat, Jakarta Ghalia: Indonesia, 1984. Bertens, K, Filsafat Barat Kontemporer Inggris-Jerman, Jakarta: Gramedia, 2002.</p> <p>Basuki, Hertoto, 2015, Mengenal Kepercayaan Terhadap Tuhan Yang Maha Esa, Semarang, PT Mimbar Media Utama.</p> <p>Custinger, James S. Custsinger, Path of Return, Lectures on the World's Religions University of South Carolina: tt.</p> <p>de Vos, H, Pengantar Etika (Yogya-karta: Tiara Wacana, 1987).</p> <p>Driyarkara, N.Sj, Filsafat Manusia (Yogyakarta: Kanisius, 1969).</p> <p>Endaswara,Suwardi, 2018, Agama Jawa, Jakarta, Narasi.</p> <p>Hatta, Mohammad, Alam Pik iran Yunani, Jakarta: UI-Press Tintamas, 1986.</p> <p>Horald, M. Titus, Living Issues in Philosophy (New York: American Book Comp., 1959).</p> <p>Huijbers, Theo, Manusia Merenungkan Dirinya,Yogyakarta: Pustaka Filsafat, Kanisius,1986</p> <p>Suseno, Franz Magnis, Etika Sosial (Jakarta: Gramedia Pustaka Utama, 1991).</p> <p>Universitas Indonesia, 2008, Manusia, Akhlak, Budi Pekerti Dan Masyarakat, Depok.</p> <p>Veegers, K.J. Realitas Sosial (Jakarta: Gramedia, 1986).</p>

Pancasila Education					
module code UNIVUM6007	student workload 123 hours	Credits (ECTS) 4.92	semester 1 or 2	frequency each semester	duration 1 semester
1	Types of courses	contact hours	independent study	class size	

	Lectures	35 hours	88 hours	40 students
2	Prerequisites for participation: N/A			
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.			
4	Subject aims Students are able to: <ul style="list-style-type: none"> . analyze the important meaning of Pancasila Education . analyze the Pancasila in the course of national history . analyze the Pancasila as a national basis . analyze the Pancasila as a state ideology . analyze the Pancasila as a philosophical system . evaluate the Pancasila as a system of ethics . evaluate the Pancasila as the basic value of knowledge development . demonstrate attitudes and behaviors that reflect the values of Pancasila . implement the values of Pancasila in everyday life Contents: <ul style="list-style-type: none"> . Analysis of the important meaning of Pancasila Education . Analysis of the Pancasila in the course of national history . Analysis of the Pancasila as a national basis . Analysis of the Pancasila as a state ideology . Analysis of the Pancasila as a philosophical system . Demonstration of ethics based on the values of the Pancasila . Evaluation of the Pancasila as the basic value of knowledge development 			
5	Teaching methods Lectures, discussions, observations - (Asynronus and Synchronus)			
6	Assessment methods Assessment methods: <ul style="list-style-type: none"> . Attitude 15% . Participation 15% . Assignments 20% . Midterm examination 25% . Final examination 25% 			
7	This module is used in the following degree programmes as well All S1 Degree			
8	Responsibility for module Muhammad Mujtaba Habibi, S.Pd, M.AP			
9	Other information, references Dirjen Belmawa Ristekdikti. 2016. Pendidikan Pancasila untuk Perguruan Tinggi. Cetakan I. Jakarta: Dirjen Belmawa Ristekdikti Abdulgani, Roeslan. 1979. Pengembangan Pancasila Di Indonesia. Jakarta: Yayasan Idayu. Aiken, H. D. 2009. Abad Ideologi, Yogyakarta: Penerbit Relief. Ali, As'ad Said. 2009. Negara Pancasila Jalan Kemaslahatan Berbangsa. Jakarta: Pustaka LP3ES. Asdi, Endang Daruni. 2003. Manusia Seutuhnya Dalam Moral Pancasila. Jogjakarta: Pustaka Raja. Bahar, Saafroedin, et. al. 1995. Risalah Sidang Badan Penyelidik Usaha-Usaha Persiapan Kemerdekaan (BPUPKI), Panitia Persiapan Kemerdekaan Indonesia (PPKI) 28 Mei 1945 -22 Agustus 1945. Jakarta: Sekretariat Negara RI. Bakker, Anton. 1992. Ontologi: Metafisika Umum. Yogyakarta: Kanisius. Bakry, Noor Ms. 2010. Pendidikan Pancasila. Pustaka Pelajar: Yogyakarta. Darmodiharjo, Darji dkk. 1991. Santiaji Pancasila: Suatu Tinjauan Filosofis, Historis dan Yuridis Konstitusional. Surabaya: Usaha Nasional.			

	<p>Darmodihardjo, D. 1978. Orientasi Singkat Pancasila. Jakarta: PT. Gita Karya.</p> <p>Direktorat Jenderal Pembelajaran dan Kemahasiswaan. 2016 .Pendidikan Pancasila Untuk Perguruan Tinggi. Jakarta: Kementerian Riset, Teknologi, dan Pendidikan Tinggi Republik Indonesia.</p> <p>Ismaun, 1978. Pancasila: Dasar Filsafat Negara Republik Indonesia. Bandung: Carya Remaja.</p> <p>Kaelan. 2013. Negara Kebangsaan Pancasila: Kultural, Historis, Filosofis, Yuridis dan Aktualisasinya. Yogyakarta: Paradigma.</p> <p>Kusuma, A.B. 2004. Lahirnya Undang-Undang Dasar 1945. Jakarta: Badan Penerbit Fakultas Hukum Universitas Indonesia.</p> <p>Latif, Yudi. 2011. Negara Paripurna: Historisitas, Rasionalitas, dan Aktualitas Pancasila. Jakarta: PT Gramedia Pustaka Utama.</p> <p>Notonagoro.1994. Pancasila Secara ilmiah Populer. Jakarta: Bumi Aksara.</p> <p>Margono dkk. 2017. Pancasila secara Kontekstual Positif. Malang: UM Press.</p> <p>Oesman,Oetojo dan Alfian (Eds). 1991. Pancasila Sebagai Ideologi dalam Berbagai Bidang Kehidupan Bermasyarakat, Berbangsa dan Bernegara. Jakarta: BP-7 Pusat,.</p> <p>Tim Kerja Sosialisasi MPR Periode 2009--2014.(2013). Empat Pilar Kehidupan Berbangsa dan Bernegara. Jakarta: Sekretariat Jenderal MPR RI.</p> <p>Prawirohardjo, Soeroso, dkk. 1987. Pancasila sebagai Orientasi Pengembangan Ilmu.Yogyakarta: Badan Penerbit Kedaulatan Rakyat.</p>
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Civics Education					
module code UNIVUM6008	student workload 83 hours	Credits (ECTS) 3,33	semester 1 or 2	frequency each semester	duration 1 semester
1	Types of courses Lectures	contact hours 23 hours	independent study 60 hours	class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims .Critical understanding of the organization of Civic Education in Higher Education with the viewpoint of challenges in development .Demonstration of commitment to the national identity possessed by the state of Indonesia as the basis of becoming a citizen with character .Explanation of the concept of national integration as one of the parameters of national unity and oneness in a logical manner based on the discovered contextual data .Analysis of the concept and application of the 1945 Constitution of the Republic of Indonesia as the constitution in Indonesia from the viewpoint of dynamics in national living .Understanding of the concept of the rights and obligations of Indonesian citizens in the application of the Pancasila political democracy system .Analysis of legal issues and efforts to resolve them with the perspective of the ideal concept of just laws according to the national constitution of Indonesia .Understanding of the concept of national insights as a collective basic viewpoint for the nation of Indonesia in the context of its utility in the scope of global interactions .Identification of the elements that make up national resistance and efforts to strengthen the nationalist commitment of young citizens Contents: .Civic Education in Higher Education .National identity .National integration				

	<ul style="list-style-type: none"> . Constitution . Democracy . Just laws . National insights . National resistance
5	Teaching methods Lectures, discussions, observations (Asynchronous and Synchronous)
6	Assessment methods 35% Participation 15% Assignments 20% Midterm examination 30% Final examination
7	This module is used in the following degree programmes as well All S1 Degree
8	Responsibility for module Rista Ayu Mawarti, S.Pd, M.Pd
9	Other information, references Dirjen Belmawa Ristekdikti. 2016. Pendidikan Kewarganegaraan untuk Perguruan Tinggi. Cetakan I. Jakarta: Dirjen Belmawa Ristekdikti Al Hakim, Suparlan, dkk. 2016. Pendidikan Kewarganegaraan dalam Konteks. Indonesia. Malang: Madani. Bolo, Andreas Doweng, dkk. 2012. Pancasila: Kekuatan Pembebas. Yogyakarta: Penerbit Kanisius Coleman, S., & Blumler, J. G. 2009. The Internet and Democratic Citizenship: Theory Practice and Policy. Cambridge: Cambridge University Press. Darmadi, Hamid. 2014. Urgensi Pendidikan Pancasila dan Kewarganegaraan di Perguruan Tinggi. Bandung: Alfabeta Kaelan 2013. Negara Kebangsaan Pancasila: Kultural, Historis, Filosofis, Yuridis, dan Aktualisasinya. Yogyakarta: Paradigma Khanif, Al (Ed), 2016. Pancasila sebagai Realitas: Percik Pemikiran Tentang Pancasila & Isu-isu Kontemporer di Indonesia. Yogyakarta: Pustaka Pelajar Latif, Y. 2011. Negara Paripurna: Historisitas, Rasionalitas dan Aktualitas Pancasila. Jakarta: PT. Gramedia Pustaka Utama. Rahayu, Ani Sri. 2017. Pendidikan Pancasila dan Kewarganegaraan (PPKn). Jakarta: Bumi Aksara Riyanto, Armada, dkk (Ed.). 2015. Kearifan Lokal - Pancasila. Yogyakarta: Penerbit Kanisius Sulasmono, B.S. 2015. Dasar Negara Pancasila. Yogyakarta: Penerbit Kanisius Tapscoot, D. 2009. Grown Up Digital: Yang Muda Yang Mengubah Dunia. Jakarta: PT Gramedia Pustaka Utama. Tilaar, HAR. 2007. Mengindonesiakan Etnisitas dan Identitas Bangsa Indonesia: Tinjauan dari Perspektif Ilmu Pendidikan. Jakarta: Rineka Cipta Wahab, A. A., & Sapriya. 2011. Teori dan Landasan Pendidikan Kewarganegaraan. Bandung: Alfabeta. Winarno. 2016. Paradigma Baru Pendidikan Kewarganegaraan: Panduan Kuliah di Perguruan Tinggi. Jakarta: Bumi Aksara

	<p>Kasali, Rhenald. 2017. Disruption: Menghadapi Lawan-Lawan Tidak Kelihatan di Zaman Uber. Jakarta: Gramedia</p> <p>Moody, Z. 2017. Creativity, Design Thinking, and Interdisciplinarity. https://doi.org/10.1007/978-981-10-7524-7</p> <p>Pratt, Andy C. 2008. Innovation and Creativity. In: Hall, Tim and Hubbard, Phil and Short, John Rennie, (eds.) The Sage Companion to the City. SAGE Publications, London, UK, pp. 138-153.</p> <p>Tran, N. 2018. Design Thinking Playbook. Designtech Highschool. https://doi.org/10.1145/2535915</p> <p>Vogel, C. M. 2009. Notes on the Evolution of Design Thinking: A Work in Progress. Design Management Review, 20(2), 16–27. https://doi.org/10.1111/j.1948-7169.2009.00004.</p>
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Student Community Engagement					
module code	student workload	Credits (ECTS)	semester	frequency	duration
UNIVUM6090	181 hours	7.25	1	each semester	1 semester
1	Types of courses a) Lectures b) Community Services		contact hours 53 hours	independent study 128 hours	class size N/A
2	Prerequisites for participation For input to high schools, a minimum of 100 Credits (ECTS) earned For input to early undergraduates and Diploma III students, a minimum of 30 Credits (ECTS) earned				
3	Learning outcomes To possess knowledge and skills that exhibit the behavior as a religious citizen who appreciates the state, nation, and culture of Indonesia based on the spirit of Pancasila, and to possess independence in working in an innovative, adaptive, and critical manner according to global dynamics.				
4	Subject aims To provide a meaningful experience to students according to their study programs, increase scientific competence, and provide experience in solving problems that exist in society that is conducted through both mono- and multi-disciplinary methods; To be able to utilize products of science and technology that result from studies that provide practical benefits for improving the quality of institutional functions that exist in society, as well as the quality of life in society, in a sustainable manner through development villages; To provide a significant learning experience to students through involvement in society that directly allows to find, formulate, solve, and overcome problems of development in a practical and interdisciplinary manner; To improve scientific competence and provide experience of solving problems that exist in society across disciplines and sectors; To increase the social and emotional intelligence of students (sensitivity, care, partiality, commitment, empathy, and adaptation) by providing a learning experience that is integrated in the reality and dynamics of living in society; To establish partnerships and develop networks of cooperation with regional governments, state enterprises, regional enterprises, businesses, and industries in a synergistic manner between higher education and society.				
	Contents: <ol style="list-style-type: none"> 1. Essence of Community Engagement 2. Policies of Community Engagement 3. Characteristics of the Community Engagement program 4. Administration of Community Engagement 5. Reporting and output 6. Technique of writing the community engagement article 7. Organization of Community Engagement 				

	8. Potential village locations for Community Engagement 9. Thematic (according to the type of community engagement)
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous), training and counseling of society; engagement with the online model (specifically during COVID-19) with the theme of “students creating efforts of engagement from home”
6	Assessment methods 1. Participation and activeness in orientation (10%) 2. Quality of program composition (20%) 3. Execution and achievement of the program (35%) 4. Final report and output (25%) 5. Peer review (10%)
7	This module is used in the following degree programmes as well All S1 Degree
8	Responsibility for module Dr. Agung Winarno
9	Other information, references Undang-Undang RI Nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional Undang-Undang RI Nomor 14 Tahun 2005 tentang Guru dan Dosen Undang-Undang RI Nomor 12 Tahun 2012 tentang Pendidikan Tinggi Peraturan Pemerintah Nomor 32 tahun 2013 tentang Perubahan atas Peraturan Pemerintah Nomor 19 Tahun 2005 tentang Standar Nasional Pendidikan Peraturan Pemerintah Nomor 19 Tahun 2017 tentang Perubahan atas Peraturan Pemerintah Nomor 74 Tahun 2008 tentang Guru Peraturan Presiden Nomor 8 Tahun 2012 tentang Kerangka Kualifikasi Nasional Indonesia (KKNI) Peraturan Menteri Pendidikan Nasional Nomor 16 Tahun 2007 tentang Standar Kualifikasi Akademik dan Kompetensi Guru. Peraturan Menteri Pendidikan Nasional Nomor 27 Tahun 2008 tentang Standar Kualifikasi Akademik dan Kompetensi Konselor Peraturan Menteri Riset, Teknologi, dan Pendidikan Tinggi Nomor 44 tahun 2015 tentang Standar Nasional PendidikanTinggi Peraturan Menteri Riset, Teknologi, dan Pendidikan Tinggi Nomor 55 Tahun 2017 tentang Standar Pendidikan Guru Panduan Program Pengenalan Lapangan Persekolahan Program Sarjana Pendidikan, Direktorat Pembelajaran Direktorat Jenderal Pembelajaran dan Kemahasiswaan Kementerian Riset, Teknologi, dan Pendidikan Tinggi Tahun 2017 Buku Pedoman Pendidikan UM Tahun Akademik 2018/2019 Buku Panduan PLP Universitas Negeri Malang

Module of Insights into Social Sciences						
Module code FISOU6001		Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 60.00 hours		Class size 40 students
2	Prerequisites for participation: n/a					
3	2. Learning outcomes Master essential concepts of social sciences as a basis for the development of intellectual capabilities with contextual insights into social sciences independently, collaboratively, and sustainably, and apply them according to their own fields of expertise based on technological development					

4	Subject aims <ol style="list-style-type: none"> 1. Master the concepts and paradigms of social sciences 2. Master and understand the scope of social sciences 3. Master the perspectives and aims of social sciences 4. Master the theories of various social science disciplines and be able to synthesize them 5. Have social capital, social ethics, social morality, and social intelligence, and play an active role in social development 6. Have the ability to conduct social research 7. Serve as social agents of change who benefit the homeland and nation
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, project, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.
9	References Astawa, Ida Bagus Made. 2017. Pengantar Ilmu Sosial. Depok: Rajawali Press. Banks, James. 2014. Strategi Pembelajaran untuk Pendidikan IPS: Inkuiri, Penilaian dan membuat keputusan. Bandung: UPI. Budiman, Arief. 1996. Teori Pembangunan Duma Ketiga. Jakarta: Gramedia. Clament, Kevin.P. 1997. Teori Pembangunan dari Kiri Ke Kanan.Yogyakarta: Pustaka Pelajar. Craib, Ian, 1986, Teori-Teori Sosial Modern. Jakarta:Penerbit CV. Rajawali. Daulay, M. Nur Husein, dkk. 2015. Ilmu Sosial Budaya Dasar. Depok: Rajawali Press. Fajar, Arnie. 2016. Portofolio Dalam Pelajaran IPS. Bandung: PT. Remaja Rosdakarya. Field, John. 2014. Modal Sosial. Bantul: Kreasi Wacana. Kartodirdjo, Sartono. 1992. Pendekatan Ilmu Sosial dalam Metodologi Sejarah. Jakarta: PT. Gramedia Pustaka Utama. Kleden, Ignas. 1987. Sikap Ilmiah dan Kritik Kebudayaan. Jakarta: LP3ES. Mac Kenzie, Norman. 1968. A Guide to Sosial Sciences, New York, Toronto, The New American Library. Malo, Manasse (Ed). 1989. Pengembangan Ilmu-ilmu Sosial di Indonesia. Jakarta: Rajawali Pers. Nasikun. 2018. Sistem Sosial Indonesia. Yogyakarta. Rajawali Press. Safarina dan Abdulah Idi. 2015. Etika Pendidikan: Keluarga, Sekolah dan Masyarakat. Santoso, Widjajanti Mulyono. 2016. Ilmu Sosial di Indonesia: Perkembangan dan Tantangan. Yoyakarta: Yayasan Obor Indonesia. Supardan, Dadang. 2008. Pengantar Ilmu Sosial, Sebuah Kajian Pendekatan Struktural. Jakarta: PT. Bumi Aksara. Soetomo. 2013.Masalah Sosial dan Upaya Pemecahannya. Yogyakarta: Pustaka Pelajar.

Module of Social Praxis					
Module code FISOU6002	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 35.00 hours	Independent study 48.33 hours	Class size 40 students	
2	Prerequisites for participation: FISOU6001				
3	Learning outcomes Master essential concepts of social sciences as a basis for the development of intellectual capabilities with contextual insights into social sciences independently, collaboratively, and				

	sustainably, and apply them according to their own fields of expertise based on technological development
4	Subject aims Participate in problem-solving in society through dialects between conceptual-theoretical insights and social realities based on local wisdom Implement the following procedures: identify problems, collect data, formulate solution alternatives, select solutions, devise action plans, perform awareness-raising and advocacy, execute actions, conduct assessments and reflections, and conduct reporting Establish collaborations between advisors, students, social groups, the government, and/or business/industrial sector in problem-solving in society Be empathetic toward members of society who are experiencing problems
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Nailul Insani, S.Pd.,M.Sc
9	References Arif, S dan Adi Sasono. 2013. Indonesia Ketergantungan dan Keterbelakangan. Jakarta: Mizan. Albert, H. 2004. Risalah Pemikiran Kritis. Yogyakarta: Pustaka Pelajar. Budimansyah, Dasim. 2009. Inovasi Pembelajaran: Project Citizen. Bandung: Program Studi Pendidikan Kewarganegaraan, Sekolah Pascasarjana, UPI. Conyers, D. 1984. An Introduction to Social Planning in The Third World. New York: Jhon Wiley & Sons Ltd Fernandes, W & Tandon, Rajesh. 1993. Riset Partisipatoris, Riset Pembebasan. Jakarta: Gramedia Habermas, J. 2006. Rasio dan Rasionalisasi Masyarakat. Yogyakarta: Kreasi Wacana. Horkheimer, M dan Adorno, T.W. 2002. Dialektika Pencerahan. Yogyakarta: IRCiSoD. Jauy, M. 2005. Sejarah Mazhab Frankfurt. Imajinasi Dialektis dalam Perkembangan Teori Kritis. Yogyakarta: Kreasi Wacana. Kleden, I. 1987. Sikap Ilmiah dan Kritik Kebudayaan. Jakarta: Kritik Kebudayaan. Kelner, D. 2003. Teori Sosial Radikal. Yogyakarta: Syarikat. Margono. 2012. Model-model Pendidikan Nilai. Makalah disajikan dalam Lokakarya Silabus Jurusan Sejarah UM. Marcuse, H. 2004. Rasio dan Revolusi. Yogyakarta: Pustaka Pelajar. McCarthy, T. 2006. Teori Kritis Jurgen Habermas. Yogyakarta: Kreasi Wacana. Muhadjir, N. 2000. Kebijakan dan Perencanaan Sosial Pengembangan Sumber Daya Manusia: Telaah Cross Discipline. Yogyakarta: Rake Sarasin. Newmann, F.M. 1975. Education for Citizen Action. California: McCuthan Publishing. Nugroho, H. 2000. Menumbuhkan Ide-ide Kritis. Yogyakarta: Pustaka Pelajar. Schram, Sanford F. 2012. Praxis for the Poor Piven and Cloward and the Future of Social Science in Social Welfare. New York and London: New York University Press

Module of Introduction to Geography					
Module code GEOGUM6001	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study, apply, and analyze geographic concepts and branches and the development of geographic natures and themes, geographic review from the perspective of the philosophy of science, approaches used in geographic studies, survey frameworks and operationalization (applied research) in geography and regional development, identification, inventory, and evaluation of geosphere phenomena for regional problem-solving, and development of regional potentials in relevance to life in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. I Komang Astina, M.S.				
9	References Bintarto. 1970. Beberapa Aspek Geografi. Yogyakarta: Fak. Geografi UGM Bintarto dan Surastopo. 1979. Metode Analisa Geografi. Jakarta: LP3ES. Daldjoeni. 1992. Geografi Baru, Organisasi Keruangan Dalam teori dan Praktek. Bandung: Alumni. Hagget, Peter. 1975. Geography A Modern Syntesis. Harper and Rows Publisher. London. Jensen, Arild Holt. 1981. Geography, Its history and Concepts. London: Harper and Row. Nursid Sumaatmaja. 1981. Studi Geografi, Suatu Pendekatan dan Analisa Keruangan. Bandung: Alumni. Preston James. 1972. All Possible World, aA History of Geographical Ideas. New York: The Odyssey Press.				

Module of General Geology					
Module code GEOGUM6002	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to recognize geological objects and to describe geological phenomena along with how they take place. It is also expected that they have basic knowledge that covers				

	mechanical and chemical processes that work in and outside the earth, including knowledge on mineral resources and energy.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Listyo Yudha Irawan, S.Pd., M.Pd., M.Sc
9	References Smith and Pun, 2006, Earthworks, Prentice Hall Tarbuck and Lutgens, 2000, Earth Science, Prentice Hall Hamblin, 1989, The Earth Dynamic System, McMillan Sanders, J.E., 1981, Principles of Physical Geology, John Wiley and Sons Co., Inc., New York.

Module of Basic Geomorphology					
Module code	Student workload	Credits (ECTS)	Semester	Frequency Each Semester	Duration
GEOGUM6003	83.33 hours	3.33	1. Sem.		1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to master the concepts/definitions of geomorphology, the scope, approaches, and structure of geomorphology, the stages of geomorphological development, the process and force of geomorphology, and structural, volcanic, denudational, fluvial, solutinal, aeolian, marine, and glacial landforms.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Listyo Yudha Irawan, S.Pd., M.Pd., M.Sc				
9	References Herlambang, Sudarno. 2004. Dasar-Dasar Geomorfologi. Diktat Kuliah. Jurusan Geografi UM Huggett, R.J. 2011. Fundamentals of Geomorphology. New York: Routledge. Summerfield, M.A. 1991. Global Geomorphology: An Introduction to the Study of Landforms. New York: Longman Suprpto D. 1997. Geomorfologi Dasar. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada. Thornburry, W.D. 1969. Principles of Geomorphology. New York: John Wiley and Sons Inc. Lobeck A. K. 1939. Introduction to Study of Landscape. New York: Mc.Graw Hill Book Company Pavlopoulos, K. Evelpidou, N. Vassilopoulos, A. 2009. Mapping Geomorphological Environments. London: Springer Dordrecht Heidelberg. Verstappen, H.Th. 1983. Applied Geomorphology Geomorphological Survey for Environment. Amsterdam: Elsevier.				

Module of Basic Geomorphology Practicum					
Module code GEOGUM6004	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to master the concepts/definitions of geomorphology, the scope, approaches, and structure of geomorphology, the stages of geomorphological development, the process and force of geomorphology, and structural, volcanic, denudational, fluvial, solutinal, aeolian, marine, and glacial landforms.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Listyo Yudha Irawan, S.Pd., M.Pd., M.Sc				
9	References Herlambang, Sudarno. 2004. Dasar-Dasar Geomorfologi. Diktat Kuliah. Jurusan Geografi UM Huggett, R.J. 2011. Fundamentals of Geomorphology. New York: Routledge. Summerfield, M.A. 1991. Global Geomorphology: An Introduction to the Study of Landforms. New York: Longman Suprpto D. 1997. Geomorfologi Dasar. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada. Thornburry, W.D. 1969. Principles of Geomorphology. New York: John Wiley and Sons Inc. Lobeck A. K. 1939. Introduction to Study of Landscape. New York: Mc.Graw Hill Book Company Pavlopoulos, K. Evelpidou, N. Vassilopoulos, A. 2009. Mapping Geomorphological Environments. London: Springer Dordrecht Heidelberg. Verstappen, H.Th. 1983. Applied Geomorphology Geomorphological Survey for Environment. Amsterdam: Elsevier. Van Zuidam, R.A. 1985. Aerial Photo-Interpretation in Terrain Analysis and Geomorphologic Mapping. The Hague: Smith Publisher				
	Van Zuidam, R.A. 1985. Aerial Photo-Interpretation in Terrain Analysis and Geomorphologic Mapping. The Hague: Smith Publisher				

Module of Human Geography					
Module code GEOGUM6005	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes				

	Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data
4	Subject aims Students are able to master the basic knowledge on geosphere phenomena in human-related aspects using geographic approaches critically, systematically, and innovatively to develop or implement science and technology, taking into consideration and applying humanistic values.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Drs. Djoko Soelistijo, M.Si.
9	References Astrid S. Susanto. 1985. Pengantar Sosiologi dan Perubahan Sosial. Bandung: Bina Cipta Arsyad, Lincolin. 1997. Ekonomi Pembangunan. Yogyakarta: STIE YKPN Bintarto, R., Surastopo Hadisumarno. 1979. Metode Analisa Geografi, Jakarta: LP3ES Chris Manning, Tadjuddin Noer Effendi. 1985. Urbanisasi Pengangguran dan Sektor Informal di Kota, Gramedia, Jakarta. Daldjoeni, N. 1985. Pedesaan Lingkungan dan Pembangunan. Bandung: Alumni Daldjoeni, N. 1982. Seluk Beluk Masyarakat Kota: Puspargam Sosiologi Kota. Bandung: Alumni Daldjoeni, N. 1987. Pokok Pokok Geografi Manusia. Bandung: Alumni Forbes, Dean, K. 1986. Geografi Keterbelakangan (Diterjemahkan). Jakarta: LP3ES. Horton, Paul B. 1999. Sosiologi Jilid 2. Jakarta: Erlangga. Huntington, Ellsworth & Shaw B., Earl, 1961. Principles of Human Geography, Sixth Edition. New York: John Wiley and Sons Inc. Jensen, Arild Holt. 2003. Geography, History and Concepts. Third Edition. London: Sage Publications Ltd. Judohusodo, Siswono. 1991. Tumbuhnya Pemukiman Liar di Perkotaan, Jurnal Ilmu-ilmu Sosial. Jakarta: PAU-IS-UI, hal. 1-5. Jones, Emrys & John, Eyles. 1982. Introduction to Social Geography. London: Oxford University Press. Jytte Agergaard, Niels Fold and Katherine V. Gough (Eds.). 2010. Rural–urban Dynamics: Livelihoods, Mobility and Markets in African and Asian Frontiers. New York: Routledge Keith Champman. 1973. People Pattern and Process. New York: A Halsted Press Book Knox, Paul L. 2010. Urban Social Geography: An Introduction–6th ed. London: Prentice Hall Kolar, John E. dan John D. Nystuen. 1974. Human Geography: Spatial Design in World Society. New York: McGraw-Hill Book Company Malthus, TR., 1960. An Essay on Population. New York: Dutton Manning, Chris dan Tadjuddin Noer Effendi. 1985. Urbanisasi Pengangguran dan Sektor Informal di Kota. Jakarta: Gramedia Mansyur, Cholil M., 1984. Sosiologi Masyarakat Kota dan Desa, Usaha Nasional, Surabaya. Meier, R.E., Baldwin, 1960. Economic Development. New York: John Wiley & Sons, Inc. Suharyono dan Moch. Amien. 1994. Pengantar Filsafat Geografi. Jakarta: Proyek Pembinaan dan Peningkatan Mutu Tenaga Kependidikan, Dirjen Dikti, Depdikbud Sumaatmadja, Nursid. 1988. Studi Geografi: Suatu Pendekatan dan Keruangan. Bandung: Alumni Susanto, Astrid S. 1985. Pengantar Sosiologi dan Perubahan Sosial. Bandung: Bina Cipta Woods, Michael. 2011. Rural. New York: Routledge

Module of Basic Cartography					
Module code GEOGUM6006	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master map usage as an instrument of studying various geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Rudi Hartono, M.Si.				
9	References Raisz, Erwin. 1968. General Cartography. New York: John Wiley and Sons Robinson, Thomas dan Randall, 1986.Elements of Cartography. New York: John Wiley and Sons. Suryantoro, Agus, Kartografi Dasar Handout, 2011, Geo FIS UM Suryantoro, Agus, Pengantar Kartografi, 2010 Vian Press, Yogyakarta				

Module of Basic Cartography Practicum					
Module code GEOGUM6007	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to use map as an instrument of studying various geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Rudi Hartono, M.Si.				
9	References Raisz, Erwin. 1968. General Cartography. New York: John Wiley and Sons Robinson, Thomas dan Randall, 1986.Elements of Cartography. New York: John Wiley and Sons. Suryantoro, Agus, Kartografi Dasar Handout, 2011, Geo FIS UM				

	Suryantoro, Agus, Pengantar Kartografi, 2010 Vian Press, Yogyakarta
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2. Module of Hydrology					
Module code GEOGUM6008	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study, apply, and analyze hydrology basic concepts and branches, hydrosphere dynamics (critically), and hydrological problems in watersheds, search and find linkages between factors in a hydrological cycle using geographic approaches, study river characteristics and types, determine water balance in various regions in Indonesia based on geospatial data, analyze water quality, and control pollutions in relevance to life in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Prof. Dr. Sugeng Utaya, M.Si.				
9	References Asdak, Chay. 2002. Hidologi dan pengelolaan Daerah Aliran Sungai. Yogyakarta: Gadjah Mada University Press. Gupta, Bhagirath Lal. 1979. Water Resources Engineering and Hydrology. New Delhi: Standart Publishers Distributors. Linsley. 1949. Hydrology for Engineer. Tokyo: McGraw Hill Book Company. Mahida, Un. 1986. Pencemaran Air dan Pemanfaat Limbah Industri. Jakarta: CV Rajawali. Martopo, Sugeng. Danau. Yogyakarta: Fakultas Geografi UGM Martha, Joice. 1980. Mengenal Dasar-dasar Hidrologi. Bandung: Penerbit Nova. Seyhan, Ersin. 1977. Fundamental Of Hydrology. Nederland Geografisch Instuut Der Rijks Universitiet Te Utrecht Soemarto. CD. 1990. Hidrologi Teknik. Surabaya: Usaha Nasional Soewarno. 1991. Hidrologi, Pengukuran dan Pengolahan Data Aliran Sungai. Bandung: Penerbit Nova Soewarno. 2000. Hidrologi Operasional. Bandung: Citra Aditya Bakti Sosrodarsono, Suyono dan Takeda, Kensaku. 1992. Hidrologi untuk Pengairan. Jakarta: Pradnya Paramita. Sriharto. 1982. Mengenal Dasar Hidrologi Terapan. Yogyakarta: KM Teknik Sipil UGM Subarkah, Iman. 1992. Hidrologi Untuk Perencanaan Bangunan Air. Bandung: Idea Dharma. Tood, DK. 1980. Groundwater Hydrology. California: John Wiley & Sons, Inc. Walton, 1970. Groundwater Resources Evaluation. New York: Graw Hill Book Company Van Te Chow. 1970. Handbook of Applied Hydrology. New York : McGraw-Hill Book Company.				

Module of Hydrology Practicum					
Module code GEOGUM6009	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study, measure, and apply theories for analyses of precipitation and evapotranspiration, runoff discharge, riverwater discharge, dependable discharge, and infiltration, and to determine the morphometric measures of lakes and reservoirs. Besides, they can also make markings of watershed. The results of measurements and analyses in the field are composed in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Prof. Dr. Sugeng Utaya, M.Si.				
9	References Asdak, Chay. 2002. Hidologi dan pengelolaan Daerah Aliran Sungai. Yogyakarta: Gadjah Mada University Press. Gupta, Bhagirath Lal. 1979. Water Resources Engineering and Hydrology. New Delhi: Standart Publishers Distributors. Linsley. 1949. Hydrology for Engineer. Tokyo: McGraw Hill Book Company. Mahida, Un. 1986. Pencemaran Air dan Pemanfaat Limbah Industri. Jakarta: CV Rajawali. Martopo, Sugeng. Danau. Yogyakarta: Fakultas Geografi UGM Martha, Joice. 1980. Mengenal Dasar-dasar Hidrologi. Bandung: Penerbit Nova. Seyhan, Ersin. 1977. Fundamental Of Hydrology. Nederland Geografisch Instuut Der Rijks Universitiet Te Utrecht Soemarto. CD. 1990. Hidrologi Teknik. Surabaya: Usaha Nasional Soewarno. 1991. Hidrologi, Pengukuran dan Pengolahan Data Aliran Sungai. Bandung: Penerbit Nova Soewarno. 2000. Hidrologi Operasional. Bandung: Citra Aditya Bakti Sosrodarsono, Suyono dan Takeda, Kensaku. 1992. Hidrologi untuk Pengairan. Jakarta: Pradnya Paramita. Sriharto. 1982. Mengenal Dasar Hidrologi Terapan. Yogyakarta: KM Teknik Sipil UGM Subarkah, Iman. 1992. Hidrologi Untuk Perencanaan Bangunan Air. Bandung: Idea Dharma. Tood, DK. 1980. Groundwater Hydrology. California: John Wiley & Sons, Inc. Walton, 1970. Groundwater Resources Evaluation. New York: Graw Hill Book Company Van Te Chow. 1970. Handbook of Applied Hydrology. New York : McGraw-Hill Book Company.				

Module of Meteorology and Climatology					
Module code GEOGUM6010	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study, apply, and analyze weather elements and spatiotemporal dynamics critically, search and find linkages between factors that control climate/weather using geographic approaches, determine the types of climate in various regions in Indonesia and the world based on spatiotemporal data, scrutinize the effects of climate on life in various regions carefully based on open source data, and report works in the form of presented papers and softfile written reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Dwiyono Hari, M.Pd., M.Sc				
9	References Utomo, Dwiyono Hari. 2016. Meteorologi Klimatologi. Magnum: Yogyakarta Ahrens, C. Donald. 2003, Meteorology Today, An Introduction To Weather, Climate, and The Environment, Seventh Edition, Thomson, Brooks/Cole, Australia. Ahrens, C. Donald. 2011. Essentials of Meteorology, An Invitation to the Atmosphere. Brooks Cole. USA. Arbogast, Alan F. 2007. Discovering Physical Geography, Third Edition. John Wiley & Sons. USA Barry, Roger G, and Chorley, Richard J. 2003. Atmosphere, Weather, and Climate. New York: Routledge. BMG, http://meteo.bmg.go.id/ Christopherson, Robert W. 2011. An Introduction to Physical Geography Geosystems. Eighth Edition. Prentice Hall Pearson. Gabler, Robert; Petersen, James F.; Trapasso, L. Michael; Sack, Dorothy. 2009. Physical Geography. Belmont, USA: Brooks/Cole, Cengage Learning. KYUMA, Kazutake. 1971. Climate of South and Southeast Asia according to Thornthwaite's Classification Scheme. Tonan Ajia Kenkyu (The Southeast Asian Studies) Vol. 9, No. 1 June, 1971 Landsberg, H.E. 1981. The Urban Climate. Academic Press, New York. Lillesand, T.M., Kiefer, R.W. 1993. Penginderaan Jauh dan Interpretasi Citra. Gadjah Mada University Press. Yogyakarta. Mather, J.R. 1974. Climatology, Fundamental and Applications, McGraw Hill Book Company, New York. Monin, A.S. 1986. An Introduction to the Theory of Climate. D. Reidel Publishing Company, Dordrecht. Neiburger, Morris. 1995. Memahami Atmosfer Kita. Bandung: Penerbit ITB Trewartha, G.T. 1954. An Introduction to Climate. McGraw-Hill Book Company, Inc., New York. Trewartha, G.T., Horn, Lyle H. 1995. Pengantar Iklim. Edisi Kelima. Gadjah Mada University Press: Yogyakarta				

Tjasyono, B. 1986. Iklim dan Lingkungan. Bandung: Cendekia Jaya Utama
Tjasyono, B. 1992. Klimatologi Terapan. Bandung: Pionir Jaya

Module of Meteorology and Climatology Practicum					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6011	43.67 hours	1.75	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to measure weather elements and spatiotemporal dynamics critically, convert point data into regional data in the form of isotherm, isohumidity, and isohyet data, search and find linkages between factors that control weather/climate using geographic approaches, determine the types of climate in various regions in Indonesia and the world based on spatiotemporal data, and report works in the form of papers and softfile written reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Dwiyono Hari, M.Pd., M.Sc				
9	References Utomo, Dwiyono Hari. 2016. Meteorologi Klimatologi. Magnum: Yogyakarta Ahrens, C. Donald. 2003, Meteorology Today, An Introduction To Weather, Climate, and The Environment, Seventh Edition, Thomson, Brooks/Cole, Australia. Ahrens, C. Donald. 2011. Essentials of Meteorology, An Invitation to the Atmosphere. Brooks Cole. USA. Arbogast, Alan F. 2007. Discovering Physical Geography, Third Edition. John Wiley & Sons. USA Barry, Roger G, and Chorley, Richard J. 2003. Atmosphere, Weather, and Climate. New York: Routledge. BMG, http://meteo.bmg.go.id/ Christopherson, Robert W. 2011. An Introduction to Physical Geography Geosystems. Eighth Edition. Prentice Hall Pearson. Gabler, Robert; Petersen, James F.; Trapasso, L. Michael; Sack, Dorothy. 2009. Physical Geography. Belmont, USA: Brooks/Cole, Cengage Learning. KYUMA, Kazutake. 1971. Climate of South and Southeast Asia according to Thornthwaite's Classification Scheme. Tonan Ajia Kenkyu (The Southeast Asian Studies) Vol. 9, No. 1 June, 1971 Landsberg, H.E. 1981. The Urban Climate. Academic Press, New York. Lillesand, T.M., Kiefer, R.W. 1993. Penginderaan Jauh dan Interpretasi Citra. Gadjah Mada University Press. Yogyakarta. Mather, J.R. 1974. Climatology, Fundamental and Applications, McGraw Hill Book Company, New York. Monin, A.S. 1986. An Introduction to the Theory of Climate. D. Reidel Publishing Company, Dordrecht.				

	<p>Neiburger, Morris. 1995. Memahami Atmosfer Kita. Bandung: Penerbit ITB</p> <p>Trewartha, G.T. 1954. An Introduction to Climate. McGraw-Hill Book Company, Inc., New York.</p> <p>Trewartha, G.T., Horn, Lyle H. 1995. Pengantar Iklim. Edisi Kelima. Gadjah Mada University Press: Yogyakarta</p> <p>Tjasyono, B. 1986. Iklim dan Lingkungan. Bandung: Cendekia Jaya Utama</p> <p>Tjasyono, B. 1992. Klimatologi Terapan. Bandung: Pionir Jaya</p>
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Module of Oceanography					
Module code GEOGUM6012	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: GEOGUM6008				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study, apply, and analyze oceanographic study using geographic approaches, the characteristics of coastlines, beaches, seas, and oceans, marine geology (Continental Drift Theory, Plate Tectonics Theory), coastal typologies classification, coastal and marine dynamics (waves, currents, high and low tides, beaches, coastlines, estuaries, and deltas), and coastal resources inventory in relevance to life in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si.				
9	References AKABRI Angkatan Laut, Pengantar Oceanologi., J. Bhatt. The Development Of Oceanography Garrison, Tom. 2005. Oceanography: An Invitation to Marine Science. USA: Thomson Brooks/Cole Hutabarat, Sahala. 1982. Pengantar Oceanografi. Surabaya: Erlangga Danel. 1975. The New World of the Oceans. USA: Little Brown and Behrman d Company. Monroe, James S, Wicander, Reed. 2001. Physical Geology: Exploring the Earth, Canada, Thomson Learning Inc. Pipkin, W Bernard, Trent, D.D., Hazlett, Richard. 2005. Geology and Environment, Thomson Learning Inc., United States of America. Plummer, Charles C dan Mc Geary, David. 1985. Physical Geology dubuque, Iowa: Wm. Brown Publishers. Plummer, Charles. C, McGeary, David, Carlson, Diane H. 2005. Physical Geology. New York, Mc Graw Hill Companies, Inc. Robinson, Edwin Simons. 1982. Basic Physical Geology, New York, John Wiley & Sons. Thomson, Graham R, Turk, Jonathan. 2005				

Module of Soil Geography						
Module code GEOGUM6013		Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 60.00 hours		Class size 40 students
2	Prerequisites for participation: GEOGUM2002; GEOGUM6003					
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility					
4	Subject aims Study the soil properties of a region logically, critically, and systematically as a product of the synergy between soil composing factors which can be sorted and classified based on soil taxonomy through literature study, field practicum, and laboratory analysis on a careful, disciplined, responsible basis.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Dr. Dwiyono Hari, M.Pd., M.Sc					
9	References Utomo, Dwiyono Hari (2017). Geografi Tanah. Laboratorium Geografi FIS UM Baver LD, Gardner WH, & Gardner WR, (1972), Soil Physics Fourth ed. John Willey and Sons Inc. New York. Brady, Nyle C., (1990), The Nature and Properties of Soils, Tenth Edition, Macmillan Publishing Company, New York. Darmawidjaya, Isa (1990), Klasifikasi Tanah, Gadjah Mada University Press, Yogyakarta. Hardjowigeno Sarwono, (2003), Klasifikasi Tanah dan Pedogenesis, Akademika Poesindo, Jakarta Hillel, Daniel, (1996), Introduction to Soil Physics, Depart. Of Soil Sciences, Univ. Of Massachusetts, Massachusetts Sarief, Saifudin, (1980), Fisika Tanah Dasar, UNPAD, Bandung. Soepardi, Goeswono, (1983). Sifat dan Ciri Tanah, Bhatara Aksara, Jakarta					

Module of Soil Geography Practicum						
Module code GEOGUM6014		Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 20.34 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;					
4	Subject aims					

	Study the properties of soil in the field and in laboratory using soil practicum tools carefully, honestly, and responsibly to produce soil characterization physically, chemically, and biologically with a logical, critical, creative thinking, benefiting human life.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Dr. Dwiyo Hari, M.Pd., M.Sc
9	References Utomo, Dwiyo Hari (2017). Geografi Tanah. Laboratorium Geografi FIS UM Baver LD, Gardner WH, & Gardner WR, (1972), Soil Physics Fourth ed. John Wiley and Sons Inc. New York. Brady, Nyle C., (1990), The Nature and Properties of Soils, Tenth Edition, Macmillan Publishing Company, New York. Darmawidjaya, Isa (1990), Klasifikasi Tanah, Gajah Mada University Press, Yogyakarta. Hardjowigeno Sarwono, (2003), Klasifikasi Tanah dan Pedogenesis, Akademika Poesindo, Jakarta Hillel, Daniel, (1996), Introduction to Soil Physics, Depart. Of Soil Sciences, Univ. Of Massachusetts, Massachusetts Sarief, Saifudin, (1980), Fisika Tanah Dasar, UNPAD, Bandung. Soepardi, Goeswono, (1983). Sifat dan Ciri Tanah, Bhatara Aksara, Jakarta

Module of Basic Remote Sensing					
Module code GEOGUM6015	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: GEOGUM6006				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master the use of remote sensing technologies as means of spatial data acquisition and analysis to study geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ike Sari Astuti, S.P., M.Nat. Res. St., Ph.D.				
9	References Ester, J.E. 1974. Imaging With Photographic and Non- Photographic Sensor System In Remote Sensing Technique For Environment Analysis. California: Hamilton Publishers Company. Hartono, Rudi. 2000. Penginderaan Jauh. Malang: Jurusan Geografi FMIPA UM. Tidak diterbitkan.				

	<p>Lillesand & Kiefer. 1979. Remote Sensing and Image Interpretation. Yogyakarta: Gadjahmada University Press</p> <p>Lindgren, D.T. 1985. Landuse Planning and Remote Sensing. Martinus Nijhoff Publishers. Dordrecht.</p> <p>Sutanto. 1987. Penginderaan Jauh Jilid I & II. Yogyakarta: Gadjahmada University Press</p> <p>Zuidam, R.A. Nan and Zuidam Concelado, F.J. Van. 1979. Terrain Analysis and Classification Using Aerial Photographs, A Geomorphological Approach. ITC Eschede</p>
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Module of Basic Remote Sensing Practicum					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6016	43.67 hours	1.75	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master the skills of using remote sensing technological applications as means of spatial data acquisition and analysis to study geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ike Sari Astuti, S.P., M.Nat. Res. St., Ph.D.				
9	References Ester, J.E. 1974. Imaging With Photographic and Non- Photographic Sensor System In Remote Sensing Technique For Environment Analysis. California: Hamilton Publishers Company. Hartono, Rudi. 2000. Penginderaan Jauh. Malang: Jurusan Geografi FMIPA UM. Tidak diterbitkan. Lillesand & Kiefer. 1979. Remote Sensing and Image Interpretation. Yogyakarta: Gadjahmada University Press Lindgren, D.T. 1985. Landuse Planning and Remote Sensing. Martinus Nijhoff Publishers. Dordrecht. Sutanto. 1987. Penginderaan Jauh Jilid I & II. Yogyakarta: Gadjahmada University Press Zuidam, R.A. Nan and Zuidam Concelado, F.J. Van. 1979. Terrain Analysis and Classification Using Aerial Photographs, A Geomorphological Approach. ITC Eschede				

Module of Biogeography					
Module code GEOGUM6017	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to study, apply, and analyze the scope of biogeography, the factors influencing plant distribution on the surface of earth, the types of biomas on the surface of earth, plant migration and scattering, the economic, ecological, and social values for human beings, the relationship between paleography and animal distribution and its evolution, animal migration and barriers, animal zoning on the surface of earth, Indonesian archipelagic fauna, animal reserves, nature reserves, animal conservation and protection programs, and the economic, ecological, and social values of animals for human beings.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.				
9	References Coke, Ronald U and James H.J, 1969, Trend in Geography: An Introduction Survey Edited, Pegamon Press, Oxford, London. Darlington, Jr, 1966, Zoogeography The Geografi Distribution of Animal, John Welley and Sons, New York Dougall, Mary Stuar Mc, 1953, Biology The Science of Life, Mac Graw-Hill Book Co. Inc, New York. Fatchan, Ach, 2013, Geografi Tumbuhan dan Hewan, Penerbit Ombak. Solo-Jogyakarta. Fatchan, Ach, 2000, Geografi Hewan: Suatu Pengantar, Laboraturium Geografi, Universitas Negeri Malang, Malang. Fatchan, Ach, 2001, Geografi Tumbuhan: Perubahan dan Penyebaran Tumbuhan di Muka Bumi, Laboraturium Geografi, Universitas Negeri Malang, Malang. Fatchan, Ach, 2003, Konsep Dasar Geografi Tumbuhan dan Hewan, Laboraturium Geografi – PPPG IPS-PMP Malang, Malang. Polunin, Nicolas, 1960, Introduction to Plant Geography and The Same Relation Science, Mac Graw-Hill Book Co. Inc, New York Pilluo, D, 1970. Biogeography, Mac Graw-Hill Book Co. Inc, New York				

Module of Economic Geography					
Module code GEOGUM6018	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: GEOGUM6005				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Students are able to develop understanding, reasoning, and creativity in analyzing and applying geographic approaches, theories, and concepts for human's economic activities and apply them for problem-solving with a logical, critical, systematic, innovative thinking responsibly using science and technology, taking into consideration humanistic values.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dra. Yuswanti Ariani, M.Si.				
9	References Adisasmito, Rahardjo. 2005. Dasar-dasar Ekonomi Wilayah. Yogyakarta: Penerbit Graha Ilmu Arsyad, Lincolin. 1997. Ekonomi Pembangunan. Yogyakarta: STIE YKPN Bintarto, R., Surastopo Hadisumarno. 1979. Metode Analisa Geografi, Jakarta: LP3ES, Daldjoeni, N. 1987. Pokok-pokok Geografi Manusia. Bandung: Alumni Dickinson, J.P. 1992. Geografi Negara Berkembang. terjemahan oleh Suharyono. Semarang: IKIP Semarang Ghalib, Rusli. 2005. Ekonomi Regional. Bandung: Pustaka Ramadhan Irawan dan M. Suparmoko. 1995. Ekonomi Pembangunan. Yogyakarta: BPFE Jhingan, M.L. 1996. Ekonomi Pembangunan dan Perencanaan. Jakarta: P.T Raja Grafindo Persada Jose Antonio Puppim De Oliveira. 2008. Upgrading Clusters and Small Enterprises: Environmental, Labor, Innovation and Social Issues. Ashgate Publishing Limited Kuncoro, Mudrajad. Tanpa Tahun. Ekonomi dan Pembangunan, Teori, Masalah dan Kebijakan. Edisi Ketiga. Yogyakarta: Unit Penerbit dan Percetakan AMP YKPN Kuncoro, Mudrajad. Tanpa Tahun. Analisis Spasial dan Regional: Studi Aglomerasi dan Kluster Industri Indonesia. Yogyakarta: Unit Penerbit dan Percetakan AMP YKPN Krugman, PR, Maurice Obstfeld, Marc J. Melitz. 2012. International Economics: Theory & Policy. The Pearson series in economics) 9th ed. Boston: Pearson Education, Inc. Krugman, Paul R. 1995. Development, Geography, and Economic Theory., The MIT Press Sukirno, Sadono. 2008. Mikroekonomi, Teori Pengantar. Edisi Ketiga. Jakarta: P.T Raja Grafindo Persada Sukirno, Sadono. 2008. Makroekonomi, Teori Pengantar. Edisi Ketiga. Jakarta: P.T Raja Grafindo Persada Sumaatmaja, Nursid. 1988. Geografi Pembangunan. Jakarta: Depdikbud, Dirjen DIKTI Todaro, Michael P. 1994. Pembangunan Ekonomi di Dunia Ketiga, Jilid 1 dan 2. Jakarta: Erlangga				

Module of Introduction to Regional Planning					
Module code GEOGUM6019	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Students are able to explain the scope of regional planning, analyze regions according to their potentials, and conduct spatial analyses for regional development planning in a balanced manner.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Satti Wagistina, S.P., M.Si.				
9	References Rustiadi, Ernani dkk.2011. Perencanaan dan Pengembangan Wilayah. Yayasan Pustaka Obor Indonesia : Jakarta Muta'Ali, Lutfi (a). 2011. Kapita Selekta Pengembangan Wilayah.BPFG: Yogyakarta Muta'Ali, Lutfi (b). 2012. Daya Dukung Lingkungan untuk Perencanaan Pengembangan Wilayah.BPFG: Yogyakarta Muta'Ali, Lutfi (c). 2014. Perencanaan Pengembangan Wilayah Berbasis Pengurangan Resiko Bencana.BPFG: Yogyakarta Nurzaman, Siti S.2012.Perencanaan Wilayah dalam konteks Indonesia.Penerbit ITB: Bandung Pontoh, Nia K, dkk. 2008. Pengantar Perencanaan Perkotaan.Penerbit ITB: Bandung				

Module of Population Geography					
Module code GEOGUM6020	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Understand population geography as a branch of geography, the approaches and development of population geography, the difference between population geography and demography, theories of population growth, population composition, overpopulation, mortality, fertility, migration, employment, population quality, and population policies, conduct innovative population geography research to solve demographic problems, and skilfully communicate work orally and in writing.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods				

	Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Prof. Dr. Budjianto, M.Sos.
9	References Mantra Ida Bagus : Demografi Umum Budijanto: Analisis Sosio Demografi Zelinsky Wilbur George : Prolugue Population Geography Razy Munir Budiarto : Dasar-Dasar Demografi Syork Siegel: The Method of Matterial Demography Demko: Demograhya Barcly GW : Tecnique of Population Analysis Pollard AH :Demograpy Analysis

Module of Work-Study in the Field (KKL) I					
Module code GEOGUM6021	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 56.67 hours	Independent study -13.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to analyze geosphere phenomena through landscape and cultural identification using geospatial information technologies and spatial, environmental, and regional approaches.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynconus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si				
9	References Buku Panduan KKL 1 Geografi				

Module of Land Surveying					
Module code GEOGUM6022	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: GEOGUM6006				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				

4	Subject aims Students are able to understand and implement the knowledge of and procedures of land surveying. Students are able to use the various instruments of land surveying.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Dr. Didik Taryana, M.Si
9	References Budiono, M. dan kawan-kawan. 1999. Ilmu Ukur Tanah. Angkasa. Bandung. Gayo, Yusuf., dan kawan-kawan. 2005. Pengukuran Topografi dan Teknik Pemetaan. PT. Pradjna Paramita. Jakarta. Hendriatiningsih, S. 1990. Engineering Survey. Teknik geodesi FPTS ITB. Bandung. Mira, S. R.M. 1988. Ukuran Tinggi Teliti. Teknik Geodesi FTSP ITB. Bandung. Purwaamijaya, I.M. 2006. Ilmu Ukur Tanah untuk Teknik Sipil. FPTK UPI. Bandung. Staf Ukur Tanah. 1982. Petunjuk Penggunaan Planimeter. Pusat Pengembangan Penataran Guru Teknologi. Bandung. Supratman, A., dan I.M Purwaamijaya. (1992). Modul Ilmu Ukur Tanah. FPTK. IKIP. Bandung. Wongsotjitro. 1980. Ilmu Ukur Tanah. Kanisius .Yogyakarta

Module of Land Surveying Practicum					
Module code GEOGUM6023	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to use the various instruments of land surveying; Students are able to apply the various measurement methods of land surveying; Students are able to present land surveying results in the form of profile or contour map.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si				
9	References Budiono, M. dan kawan-kawan. 1999. Ilmu Ukur Tanah. Angkasa. Bandung. Gayo, Yusuf., dan kawan-kawan. 2005. Pengukuran Topografi dan Teknik Pemetaan. PT. Pradjna Paramita. Jakarta. Hendriatiningsih, S. 1990. Engineering Survey. Teknik geodesi FPTS ITB. Bandung. Mira, S. R.M. 1988. Ukuran Tinggi Teliti. Teknik Geodesi FTSP ITB. Bandung.				

	Purwaamijaya, I.M. 2006. Ilmu Ukur Tanah untuk Teknik Sipil. FPTK UPI. Bandung. Staf Ukur Tanah. 1982. Petunjuk Penggunaan Planimeter. Pusat Pengembangan Penataran Guru Teknologi. Bandung. Supratman, A., dan I.M Purwaamijaya. (1992). Modul Ilmu Ukur Tanah. FPTK. IKIP. Bandung. Wongsotjitro. 1980. Ilmu Ukur Tanah. Kanisius .Yogyakarta
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Module of Photogrametry					
Module code GEOGUM6024	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: GEOGUM6015				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master the photographic system of remote sensing technologies as means of spatial data acquisition and analysis to study geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Rudi Hartono, M.Si.				
9	References Wolf, Paul R., 1993. Elemen Fotogrametri. Yogyakarta: Gadjah Mada University Press. Terjemahan. Buku asli diterbitkan tahun 1983. Paine, David P., 1993. Fotografi Udara dan Penafsiran Citra Untuk Pengelolaan Sumberdaya Edisi ke-2. Yogyakarta: Gadjah Mada University Press. Terjemahan Imam Abdurahman. Buku Asli : Aerial Photography and Image Interpretation For Resource Managment, John Wiley & Sons. Lillesand, Thomas M. and Ralph W. Kiefer. 1994. Remote Sensing and Image Interpretation Third Edition. New York : John Wiley & Sons. Madani, Mostafa. 2006. Integrating Integrated Digital Photogrammetry System. Huntsville: Intergraph Corporation				

Module of Photogrametry Practicum					
Module code GEOGUM6025	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6016				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims				

	Students are able to acquire and analyze spatial data to study geographical phenomena using the photographic system of remote sensing technologies.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Drs. Rudi Hartono, M.Si.
9	References Wolf, Paul R., 1993. Elemen Fotogrametri. Yogyakarta: Gadjah Mada University Press. Terjemahan. Buku asli diterbitkan tahun 1983. Paine, David P., 1993. Fotografi Udara dan Penafsiran Citra Untuk Pengelolaan Sumberdaya Edisi ke-2. Yogyakarta: Gadjah Mada University Press. Terjemahan Imam Abdurahman. Buku Asli : Aerial Photography and Image Interpretation For Resource Managament, John Wiley & Sons. Lillesand, Thomas M. and Ralph W. Kiefer. 1994. Remote Sensing and Image Interpretation Third Edition. New York : John Wiley & Sons. Madani, Mostafa. 2006. Integraph Integrated Digital Photogrammetry System. Huntsville: Integraph Corporation

Module of Mineralogy					
Module code GEOGUM6026	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to analyze definitions, the properties of crystals and minerals, external forms and internal orders of crystals, crystal chemistry, physical and chemical mineralogy, mineralogy systematics, minerals in rocks, mineral genesis and associations, economic minerals, and gemstone minerals.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Rudi Hartono, M.Si.				
9	References Deer, W. A., Howie, R. A., & Zussman, J., 1992, Rock Forming Mineral. 2nd Edition, Longman Scientific & Technical, London, 696 h. Hibbard, M.J., 2002, Mineralogy: A geologist's Point of View, McGraw-Hill, Boston, 562 h Hurlbut, C. S., Jr., 1971, Dana's Manual of Mineralogy, John Wiley and Sons, Inc., New York Klein, C., 2002, Mineral Science, 22nd Edition, John Wiley and Sons, Inc., New York, 641 h				

Module of Rural and Urban Geography					
Module code GEOGUM6027	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Students are able to study, apply, and analyze rural and urban potentials and development critically and comprehensively and to search and find linkages between rural and urban elements and life using geographic approaches.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Singgih Susilo, M.S., M.Si				
9	References Bintarto- Surastopo Hadisumarno, 1979. Metode Analisa Geografi. LP3ES Jakarta Bintarto, 1975. Pengantar Geografi Pembangunan. PT.PB "Kedaulatan Rakyat". Yogyakarta Hadi Sabari Yunus, 1994. Teori Dan Model Struktur Keruangan Kota. Departemen Pendidikan Dan Kebudayaan, Universitas Gadjah Mada Fakultas Geografi. Yogyakarta Hadi Sabari Yunus, 2005. Klasifikasi Kota. Pustaka Pelajar. Yogyakarta Hadi Sabari Yunus, 2005. Manajemen Kota. Pustaka Pelajar. Yogyakarta Hadi Sabari Yunus, 2005. Struktur Tata Kota. Pustaka Pelajar. Yogyakarta Nursid Sumaatmadja. 1988 Geografi Pembangunan. P dan k Dikti. Jakarta. Takashi, Edward, Glen. 2002. Kota Dan Lingkungan. LP3ES. Jakarta				

Module of Geographic Information System					
Module code GEOGUM6028	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6006				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master the concepts of spatial data management and analysis using geographic information systems, including spatial data input, processing, and presentation, to solve problems related to geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				

7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module
9	Arronof, S. 1991. Geographic Information System; A Management Perspective. Barrough. 1986. Principle of Geographical Information System for Land Resources Assembly. Dulbahri, 1996, Sistem Informasi Geografi. Yogyakarta, Puspics-Fakultas Geografi UGM DeMers, M, 1997, Fundamentals of Geographic Information Systems, New York, John Wiley and Sons, Inc. Kauffman, N, 1996, Exploring Geographic Information System, Canada, John Wiley dan Sons, Inc. Michael W Demers. 1997. Fundamentals of Geographic Information System. Paryono, P. 1994, Sistem Informasi Geografi, Yogyakarta: Dani Offset

Module of Geographic Information System Practicum					
Module code GEOGUM6029	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master the application of spatial data management and analysis using geographic information systems, including spatial data input, processing, and presentation, to solve various problems related to geographical phenomena.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Purwanto, S.Pd., M.Si.				
9	References Arronof, S. 1991. Geographic Information System; A Management Perspective. Barrough. 1986. Principle of Geographical Information System for Land Resources Assembly. Dulbahri, 1996, Sistem Informasi Geografi. Yogyakarta, Puspics-Fakultas Geografi UGM DeMers, M, 1997, Fundamentals of Geographic Information Systems, New York, John Wiley and Sons, Inc. Kauffman, N, 1996, Exploring Geographic Information System, Canada, John Wiley dan Sons, Inc. Michael W Demers. 1997. Fundamentals of Geographic Information System. Paryono, P. 1994, Sistem Informasi Geografi, Yogyakarta: Dani Offset				

Module of Regional Geography					
Module code GEOGUM6030	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Understand the basics of regional and area division on the surface of earth; Understand the basic theories and concepts of regional geography as a basis for studies of regional phenomena and problems on the surface of earth; Analyze regional or area formation, development, and effects in geographic study in relation to human life.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Marhadi Slamet, M.Si.				
9	References <ol style="list-style-type: none"> De Blij, Harm J, & Peter Muller. 1988. Geography Region and Concepts. New York: John Willey & Sons. Hagget, Peter. 1971. Locational Analysis in Human Geography, New York: St Martin. Sandy, I. Made. 1985. Republik Indonesia Geografi Regional. Jakarta: Geografi FMIPA-UI. 				

Module of Tourism Geography					
Module code GEOGUM6031	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Students are able to master the basic knowledge on tourism and its applications for subject development using tourism analysis techniques and appropriate technologies to solve various problems in the field of tourism.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. I Komang Astina, M.S.				

9	References Burton, Rosemary. 1991. Travel Geography. London: Pitman Publishing Gee, Chuk. dkk. 1984. The Travel Industry. Connecticut: The AVI Publishing Company Holden, Andrew. 2005. Tourism Studies and The Social Science. New York: Routledge Pearce, Douglas. 1987. Tourism to A Geography Analysis. New York: Long Man Pearce. 1990. Geography of Tourism. London. Page. 1991. Geography of Tourism. Hannement Int. Inc. Pendit, Nyoman S. 2006. Ilmu Pariwisata: Sebuah Pengantar Perdana. Jakarta: Pradnya Paramita Pitana, I Gde dan I Ketut Surya Diarta. 2009. Pengantar Ilmu Pariwisata. Yogyakarta: Penerbit Andi Robinson.1976. Geography of Tourism. London Kusmayadi dan Endar Sugiarto. 2000. Metodologi Penelitian dalam Bidang Kepariwisata. Jakarta: Gramedia Pustaka Utama Kusmayadi. 2004. Statistika Pariwisata Deskriptif. Jakarta: Gramedia Pustaka Utama Lavery, 1986. Philosophy of Tourism. Spillane, James. 1987. Manajemen Kepariwisata. Jakarta: Pradnya Paramita Yoeti, Oka. 1982. Pengantar Pariwisata. Bandung: Angkasa Yoeti, Oka. 1985. Pemasaran Pariwisata. Bandung: Angkasa Yoeti, Oka. 2008. Ekonomi Pariwisata: Introduksi, Informasi dan Implementasi. Jakarta: Penerbit Buku Kompas Wahab, Salah. 1996. Manajemen Kepariwisata. Jakarta: Pradnya Paramita
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Module of English for Professional Purposes					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6032	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users				
4	Subject aims Students are able to apply English grammar and vocabulary correctly, understand a variety of English pieces of literature, including textbooks, journals/articles, and scientific magazines, critically analyze English geographic pieces of writing/articles, use English geographic scientific sources to support learning in the Bachelor's degree in geography study program, write journals, conduct structured reflections, and summarize articles in English.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ike Sari Astuti, S.P., M.Nat. Res. St., Ph.D.				
9	References Azar, B.S. and Stacy A.H. 2004. Basic English Grammar, Fourth Edition. New York: Pearson longman Azar, B.S. and Stacy A.H. 2004. Fundamentals of English Grammar Fourth Edition. New York: Pearson longman Barron. 2000. TOEFL Preparation. Longman. DP Australia, 1985. English for the Life Sciences. Canberra: ACT.				

	<p>Hashemi, L., Raymond, M. 2004. English Grammar in Use Supplementary Exercise. New York: Cambrige University Press.</p> <p>Martin Bates, Evans. 1976. English for Science and Technology. Longman.</p> <p>Soeparno. 2001. The Art of Translating English into Indonesian. Malang: Penerbit Universitas Negeri Malang (UM-Press).</p> <p>Spaers. D.M. 2000. Improving Reasing Skills 4th Edition. Mc Graw Hill.</p> <p>Team of Five. 2005. Improving Reading Skills in English for University Students. Book 1-3. Prenada Media.</p>
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Module of Statistics					
Module code GEOGUM6033	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to understand the concepts of descriptive statistics and inferential statistics and to apply them to test hypotheses, process data, and analyze data for the purpose of geographic research.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ike Sari Astuti, S.P., M.Nat. Res. St., Ph.D.				
9	References MA, Sudjana., 2005. Metoda Statistika. Bandung: Tarsito. Rogerson, P., 2001. Statistical methods for geography. Sage. Santoso, S., 2003. Statistik Deskriptif. Penerbit ANDI, Yogyakarta. Santoso, S., 2009. Statistika Induktif. Ardana Media–Yogyakarta, Yogyakarta.				

Module of Environmental Geography					
Module code GEOGUM6034	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze environmental and disaster phenomena through territorial, social, and economic surveys using geospatial technologies with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study, apply, and analyze environmental elements and their dynamics spatiotemporally, search and find linkages between environmental factors using geographic				

	approaches, determine the interaction patterns between the social system and ecosystem in various regions in Indonesia and the world based on spatiotemporal data, scrutinize the effects of the environment on life and environmental damage along with the concrete solutions, understand development dynamics to reach SDGs in various regions carefully based on open source data, and report works in the form of presented papers and softfile written reports.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Prof. Dr. Sumarmi, M.Pd.
9	Bintarto, 1977. Pengantar Geografi Sosial, Yogyakarta, UP Spring. Daniel D. Chiras, 1988, Environmental Science, California: The Benjamin Cumming Publishing Company, Inc. Kaslan A. Thohir, 1991, Butir-butir Tata Lingkungan, Jakarta: PT. Rineka Cipta. Moh. Soerjani, dkk. 1987. Lingkungan Sumber daya dan Pembangunan, Jakarta: UI Press Otto Soemarwoto, 1997. Ekologi, Lingkungan Hidup, dan Pembangunan, Jakarta: Djambatan. Otto Soemarwoto, 1999. Analisis Mengenai Dampak Lingkungan, Yogyakarta Gajah Mada Tjasyono, B. 1986. Iklim dan Lingkungan. Bandung: Cendekia Jaya Utama Sarlito W. Sarwono, 1995. Psikologi Lingkungan, Jakarta: PT. Gramedia Widiasarana Indonesia. Soedjiran Resosoedarmo, 1985. Pengantar Ekologi. Bandung: Remadja Karya. Supardi, I, 1994. Lingkungan Hidup dan Kelestariannya. Bandung: Alumni. Tafe Commission, 1991. Environment in Crisis, Sydney, Australia: Wentworth Press. Unesco. 1997. Education for Sustainable Future, Thessaloniki Yunani: Unesco

Module of Spatial Statistics					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6035	123.00 hours	4.92	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to understand regional resources management optimally, identify problems of regional resources management analytically, conduct regional resources feasibility studies using various feasibility study methods, design regional resources governance, and report work (project) as the course's final project.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ike Sari Astuti, S.P., M.Nat. Res. St., Ph.D.				
9	References Cressie, Noel. Statistics for spatial data. (2015). John Wiley & Sons				

	<p>Roger S. Bivand, Edzer J. Pebesma and Virgilio Gómez -Rubio Applied Spatial Data Analysis with R (2008), Springer</p> <p>Lance A. Waller and Carol A. Gotway. Applied Spatial Statistics for Public Health Data (2004), John Wiley & Sons.</p> <p>O. Schabenberger and C. A Gotway. Statistical Methods for Spatial Data Analysis (2005), Chapman & Hall.</p> <p>S.Banerjee, B.Carlin, and A.Gelfand. Bayesian and Hierarchical Modeling of Spatial Data: Hierarchical Modeling and Analysis for Spatial Data (2004), Chapman and Hall.</p>
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Module of Land Conservation					
Module code GEOGUM6036	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6013				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to study, apply, and analyze land conservation concepts, land resources damage factors, land erosion aspects, erosion mechanisms and forms, erosion causing factors, and land erosion survey and mapping; Students are able to device and evaluate land conservation planning and development: mechanically, land management, for agronomic and non-agronomic area, based on the geospatial information of implication planning from surveys and of land erosions in relevance to human activities; Students are able to analyze the survey and mapping of erosion rate and its control in relevance to life in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si.				
9	References <p>Ahmad, Al –Smadi Mohamad. 2007. Area Modelling of Erosion for Enviromental Non point Aplcation(AMEENA). Virginia: Desertation Faculty of Virginia Polytechnic Institute and State University.</p> <p>Andrew, A. Millward, Janet E. Mersey. 1999. Adapting The RUSLE to Model Soil Erosion Potential in a Mountainous Tropical Watershed. Canada : Departement of Geography University of Waterloo.</p> <p>Arsyad, Sitanala. 2000. Konservasi Tanah dan Air. Bogor : IPB Press.</p> <p>Asdak, C. 2004. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Yogyakarta: Gadjah Mada University Press.</p> <p>Bennet. 1955. Elements Of Soil Conservation. Tokyo: McGraw-Hill Book Company.</p> <p>Beasley, D.B., Huggins, L.F. 1991. ANSWERS (Areal Nonpoint Source Watershed Environment Response Simulation) User’s Manual. Publication No. 5. Agricultural Engineering, University of Georgia-CPES, Tifton, GA.</p> <p>Birgma, Geldor, Imeson, Kwaad, Mucher, Riezebos, Seyhan, Van Zon., 1981. Geomorphological Part A : Measuring Methods and Survey of Rainwater Erosion. Netherhlands : ITC.</p>				

	<p>Dradjad M. 1982. Prosedur Standar Pengawetan Tanah dan Air. Yogyakarta : Fakultas Pertanian UGM</p> <p>Flanagan.D.C 1995. USDA- Water Erosion Prediction Project Hillslope Profile and Watershed Model Documentation. Indiana : USDA-ARS National Soil erosion Research Laboratory.</p> <p>Hardiyatmo Hary Christady. 2006. Penanganan Tanah longsor dan Erosi. Yogyakarta: Gadjah Mada University</p> <p>Humberto Blanco and Lal. 2008. Principles of Soil Conservation and Management. Colombus USA : Springer.</p> <p>Kartasapoetra, A.G. Kartasapoetra dan Mul Mulyani Sutedjo. 1987. Tehnologi Konservasi Tanah dan Air. Jakarta : PT. Bina Aksara</p> <p>Morgan, R.P.C. 2005. Soil Erosion and Conservation. USA : Blackwell Publishing.</p> <p>Morgan, R.P.C. 2005. Soil Erosion and Conservation. USA : Blackwell Publishing.</p> <p>Seta, Ananta Kusuma. 1991. Konservasi Sumberdaya Tanah Dan Air. Jakarta: Kalam Mulia.</p> <p>Sinukaban N. 1995. Manajemen/Pengelolaan Daerah Aliran Sungai. Bandung : Puslitbang PU.</p> <p>Utomo, H.N. 1989. Konservasi Tanah di Indonesia Suatu Rekaman dan Analisa. Jakarta : CV Rajawali.</p> <p>Utomo, W.H. 1994. Erosi dan Konservasi Tanah. Malang : IKIP Malang.</p> <p>Troeh, F.R., Hobbs, J.A. and Donahue, R.L. 2004. Soil and Water Conservation for Productivity and Environmental Protection. New Jerse : Prentice-Hall</p>
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Module of Land Conservation Practicum					
Module code GEOGUM6037	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6014				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to study, implement, and analyze erosion forms, conduct erosion factors measurements, erosion rate predicting surveys (actually and empirically), and land erosion survey and mapping, apply SIG to analyze erosion factors, calculate tolerable erosion (EDP) and erosion danger level, conduct land management and stewardship to control erosion in the field, and analyze erosion rate and its control in relevance to life in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si.				
9	References Ahmad, Al –Smadi Mohamad. 2007. Area Modelling of Erosion for Enviromental Non point Aplcation(AMEENA). Virginia: Desertation Faculty of Virginia Polytechnic Institute and State University. Andrew, A. Millward, Janet E. Mersey. 1999. Adapting The RUSLE to Model Soil Erosion Potential in a Mountainous Tropical Watershed. Canada : Departement of Geography University of Waterloo.				

	<p>Arsyad, Sitanala. 2000. Konservasi Tanah dan Air. Bogor : IPB Press.</p> <p>Asdak, C. 2004. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Yogyakarta: Gadjah Mada University Press.</p> <p>Bennet. 1955. Elements Of Soil Conservation. Tokyo: McGraw-Hill Book Company.</p> <p>Beasley, D.B., Huggins, L.F. 1991. ANSWERS (Areal Nonpoint Source Watershed Environment Response Simulation) User's Manual. Publication No. 5. Agricultural Engineering, University of Georgia-CPES, Tifton, GA.</p> <p>Birgma, Geldor, Imeson, Kwaad, Mucher, Riezebos, Seyhan, Van Zon., 1981. Geomorphological Part A : Measuring Methods and Survey of Rainwater Erosion. Netherlands : ITC.</p> <p>Dradjad M. 1982. Prosedur Standar Pengawetan Tanah dan Air. Yogyakarta : Fakultas Pertanian UGM</p> <p>Flanagan.D.C 1995. USDA- Water Erosion Prediction Project Hillslope Profile and Watershed Model Documantation. Indiana : USDA-ARS National Soil erosion Research Laboratory.</p> <p>Hardiyatmo Hary Christady. 2006. Penanganan Tanah longsor dan Erosi. Yogyakarta: Gadjah Mada University</p> <p>Humberto Blanco and Lal. 2008. Principles of Soil Conservation and Management. Colombus USA : Springer.</p> <p>Kartasapoetra, A.G. Kartasapoetra dan Mul Mulyani Sutedjo. 1987. Tehnologi Konservasi Tanah dan Air. Jakarta : PT. Bina Aksara</p> <p>Morgan, R.P.C. 2005. Soil Erosion and Conservation. USA : Blackwell Publishing.</p> <p>Morgan, R.P.C. 2005. Soil Erosion and Conservation. USA : Blackwell Publishing.</p> <p>Seta, Ananta Kusuma. 1991. Konservasi Sumberdaya Tanah Dan Air. Jakarta: Kalam Mulia.</p> <p>Sinukaban N. 1995. Manajemen/Pengelolaan Daerah Aliran Sungai. Bandung : Puslitbang PU.</p> <p>Utomo, H.N. 1989. Konservasi Tanah di Indonesia Suatu Rekaman dan Analisa. Jakarta : CV Rajawali.</p> <p>Utomo, W.H. 1994. Erosi dan Konservasi Tanah. Malang : IKIP Malang.</p> <p>Troeh, F.R., Hobbs, J.A. and Donahue, R.L. 2004. Soil and Water Conservation for Productivity and Environmental Protection. New Jerse : Prentice-Hall</p>
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Module of Thematic Cartography					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6038	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students
2	Prerequisites for participation GEOGUM6006				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master thematic map design concepts to present spatial and non-spatial data according to the cartographic methodology.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Rudi Hartono, M.Si.				

9	References Menno-JanKraak, Ferjan Ormelting. 2010. Cartography Visualication of Geospatial Data, 3rd Edition. Pearson Education Ltd. England. Elzakker, Corne P.J.M, 2004. The Use Of Maps in the Exploration of Geographic data. Netherlands: Utrecht. Muehrcke, Juliana O and Muehrcke, Philip C. Map Use Reading, Analisis and Interpretation. Sinaga, Marulli. 2004. Kartografi. Jur. Geografi: UGM Robinson, et, all. 2004. Elements of cartography. John Wiley and Sons. INC
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Module of Thematic Cartography Practicum					
Module code GEOGUM6039	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6007				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to master the application of thematic map design to present spatial and non-spatial data according to the cartographic methodology.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Drs. Rudi Hartono, M.Si.				
9	References Menno-JanKraak, Ferjan Ormelting. 2010. Cartography Visualication of Geospatial Data, 3rd Edition. Pearson Education Ltd. England. Elzakker, Corne P.J.M, 2004. The Use Of Maps in the Exploration of Geographic data. Netherlands: Utrecht. Muehrcke, Juliana O and Muehrcke, Philip C. Map Use Reading, Analisis and Interpretation. Sinaga, Marulli. 2004. Kartografi. Jur. Geografi: UGM Robinson, et, all. 2004. Elements of cartography. John Wiley and Sons. INC				

Module of Fieldwork Course (KKL) II					
Module code GEOGUM6040	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 56.67 hours	Independent study -13.00 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6021				
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users				
4	Subject aims				

	Students are able to interpret physical characteristics based on the origins, processes, and predictions of geological, geomorphological, and hydrological conditions, land use, soil types, meteorology and climatology, disaster potentials, and the social, economic, and cultural characteristics of a region, build geographic skills to conduct measurements of positions, gradients, soil pH, surface profile, water quality, water discharge, soil profile, beach typology, and the properties of igneous, sediment, and metamorphic rocks and to use remote sensing, SIG, and cartographic data, build a spatial thinking ability based on the data and facts in the field, analyze measurements, organize KKL, and compose a proposal, make a report, and be answerable for both.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Dr. Didik Taryana, M.Si.
9	References Buku Pedoman KKL Jurusan Geografi FIS UM

Module of Geographic Research Methods						
Module code GEOGUM6041		Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory		Contact hours 35.00 hours	Independent study 88.00 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users					
4	Subject aims Students are able to understand, apply, analyze, and publicize the relationship between research and science based on aspect definitions, literature review concepts, literature study, theoretical framework, and challenges to the philosophy of geography in the development of the science with an output of semi-research student scientific work in the form of softfile and hardfile report, which is also to be delivered through a presentation.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronus and Synchronus)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Prof. Dr. Sugeng Utaya, M.Si.					
9	References Singarimbun, Efendi. 2011. Metodologi Penelitian Surve. Jakarta: LP3S. Creswell, John W. 2015. Penelitian Kualitatif dan Desain Riset. Yogyakarta: Pustaka Pelajar. Maleong. Lexy J. 2013. Metode Penelitian Kualitatif. Bandung: Remaja Rosdakarya. Mantra, Ida Bagus. 2004. Filsafat Penelitian dan Metode Penelitian Sosial. Yogyakarta: Pustaka Pelajar.					

	<p>Fatchan. 2011. Metodologi Penelitian Kualitatif. Jakarta: Grafindo.</p> <p>Sugiyono. 2012. Metodologi Penelitian Kualitatif, Kuantitatif dan R&D. Bandung: Alfabeta.</p> <p>Shyock, H.S., and Siegel 1971. The Methods and Materials of Demography. Washington DC: U.S.Bureau of the Census</p>
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Module of Land Resources Evaluation					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6042	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6008, GEOGUM6036				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to study, apply, and analyze the physical conditions of a region and to analyze land resources use effectively and efficiently by first finding out about the characteristics and quality of the land. Students are able to conduct land resources evaluation and apply land appropriateness survey and mapping techniques by combining, processing, presenting, and interpreting analysis data from geosphere information and regional surveys using geospatial technologies, and then present them in the form of reports.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si.				
9	References Beek, K.J. 1978. Land Evaluation for Agricultural development. ILRI Wageningen, The Netherlands. Publication No 23. Djaenudin, D; M. Herdriman, H. Subagyo, A. Mulyani dan N. Suharta.2003. Kriteria Kesesuaian Lahan untuk Komoditas Pertanian.Versi 4: Januari 2003. Bogor: Pusat Penelitian Tanah dan Pengembangan Tanah dan Agroklimate. FAO. 1982. Land Evaluation for Development. Rome: FAO FAO.Guidelines: Land evaluation for irrigated agriculture - FAO Soils Bulletin 55 FAO.Guidelines: Land evaluation for RainfedAgriculture. FAO Soils bulletin 55. Aronoff, S (1989). Geographic Information Systems: A Management Perspective Ottawa: WDL Publications.2. Arsyad, Sitanala, 1989,Konservasi Tanah dan Air , IPB Press, Bogor.3.Bacic, I.L.Z., 2003 Demand – Driven Land Evaluation Ph.D.-Thesis,Wageningen University, Enschede. Burrough, P.A. (1987).Principles of Geographical Information Systems for Land Resources sessment . New York: Oxford University Press. Dent, David dan Young, Anthony (1981).Soil Survey and Land Evaluation . London:George Allen & Unwin.6.FAO 1976, A Framework for land evaluation, Food and Agriculture Organization of the UN ,Rome, Italy. Fletcher J.R., Gibb, R.,G., 1990,Pedoman Survei Sumberdaya Lahan untuk Perencanaan Konservasi Tanah di Indonesia Direktorat Jend.Reboisasi danRahabilitasi Lahan, Dep.Kehutanan , Jakarta.				

	<p>Hopkins, L.D. (1977). Methods for Generating Land Suitability Maps. Journal of American Institute of Planners . Pp. 386 – 400.</p> <p>Kirk, Roger E. (1984). Elementary Statistics . California: Brooks/Cole Publishing Company.</p> <p>McCloy, Keith R. (1995). Resource Management Information Systems: Process and Practice. London, UK: Taylor & Francis Ltd.</p> <p>Mitchell, Bruce (1991). Geography and Resource Analysis second edition. Essex, England: Longman Scientific and Technical.</p>
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Module of Land Resources Evaluation Practicum					
Module code GEOGUM6043	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation GEOGUM6009, GEOGUM6037				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to study, apply, and analyze the physical conditions of a region and to analyze land resources use by first finding out about the characteristics and quality of the land using laboratory and survey instruments to classify the land capacity and appropriateness. Students are able to conduct land resources evaluation and apply land appropriateness survey and mapping techniques by combining, processing, presenting, and interpreting analysis data from geosphere information and regional survey using geospatial technologies, and then present them in the form of reports.				
5	Teaching methods Laboratory and field practicums, group work, group discussions				
6	Assessment methods Activeness, practicum report				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si.				
9	References Beek, K.J. 1978. Land Evaluation for Agricultural development. ILRI Wageningen, The Netherlands. Publication No 23. Djaenudin, D; M. Herdriman, H. Subagyo, A. Mulyani dan N. Suharta. 2003. Kriteria Kesesuaian Lahan untuk Komoditas Pertanian. Versi 4: Januari 2003. Bogor: Pusat Penelitian Tanah dan Pengembangan Tanah dan Agroklimat. FAO. 1982. Land Evaluation for Development. Rome: FAO FAO. Guidelines: Land evaluation for irrigated agriculture - FAO Soils Bulletin 55 FAO. Guidelines: Land evaluation for Rainfed Agriculture. FAO Soils bulletin 55. Aronoff, S (1989). Geographic Information Systems: A Management Perspective Ottawa: WDL Publications. 2. Arsyad, Sitanala, 1989, Konservasi Tanah dan Air, IPB Press, Bogor. 3. Bacic, I.L.Z., 2003 Demand – Driven Land Evaluation Ph.D.-Thesis, Wageningen University, Enschede. Burrough, P.A. (1987). Principles of Geographical Information Systems for Land Resources sessment . New York: Oxford University Press.				

	<p>Dent, David dan Young, Anthony (1981). Soil Survey and Land Evaluation . London: George Allen & Unwin. 6. FAO 1976, A Framework for land evaluation, Food and Agriculture Organization of the UN , Rome, Italy.</p> <p>Fletcher J.R., Gibb, R., G., 1990, Pedoman Survei Sumberdaya Lahan untuk Perencanaan Konservasi Tanah di Indonesia Direktorat Jend. Reboisasi dan Rehabilitasi Lahan, Dep. Kehutanan , Jakarta.</p> <p>Hopkins, L.D. (1977). Methods for Generating Land Suitability Maps. Journal of American Institute of Planners . Pp. 386 – 400.</p> <p>9. Kirk, Roger E. (1984). Elementary Statistics . California: Brooks/Cole Publishing Company.</p> <p>McCloy, Keith R. (1995). Resource Management Information Systems: Process and Practice. London, UK: Taylor & Francis Ltd. 12.</p> <p>Mitchell, Bruce (1991). Geography and Resource Analysis second edition. Essex, England: Longman Scientific and Technical. 13.</p> <p>Sitorus, Santun, 1985, Evaluasi Sumberdaya Lahan , Trusmi, Bandung.</p>
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Module of Rural and Urban Planning					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6044	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Mandatory		Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students
2	Prerequisites for participation GEOGUM6019, GEOGUM6027				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Students have knowledge, insights, and analytical power regarding development planning in urban and rural environments. These outcomes are directed toward students' ability to formulate approaches, strategies, policy directions, programs, and activities of urban-rural development through simple mini-projects in a given location, enabling students to co-exist with science development and its application in solving ongoing urban/rural problems. In conducting these simple mini-projects students are guided by the guiding lecturers. They will describe the results orally and in the form of reports as authentic proofs.				
5	Teaching methods Project work, case studies, group work, lectures, group discussions				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Satti Wagistina, S.P., M.Si.				
9	References Fellmann, J.D., Getis, A., & Getis, J., 2001. Human geography: landscapes of human activities. McGraw-Hill. New York Johnson, J.H., 2013. Urban geography: an introductory analysis, Elsevier. Knox, P.L., Marston, S.A., & Imort, M., 2016. Human geography: Places and regions in global context. Pearson Education Inc, Upper Saddle River, New Jersey, USA Kuncoro, M., 2004. Otonomi dan pembangunan daerah: Reformasi, perencanaan, strategi dan peluang. Penerbit Erlangga, Jakarta. Narwoko, J.D., 2007. Sosiologi: Teks pengantar dan terapan. Kencana Pradana Media Group, Jakarta				

	<p>Nurmandi, A., 2014. Manajemen perkotaan: Teori organisasi, perencanaan, perumahan, pelayanan dan transportasi mewujudkan kota cerdas. Jusuf Kalla School of Government Universitas Muhammadiyah Yogyakarta (JKSG UMY), Yogyakarta</p> <p>Pacione, M., 2009. Urban geography: A global perspective, Routledge.</p> <p>Pontoh, K.N., & Kusiwan, I., 2009. Pengantar perencanaan perkotaan. Penerbit ITB, Bandung</p> <p>Ritzer, G., & Smart, B., (eds), 2001. Handbook of Social Theory. SAGE Publication, London</p> <p>Rustiadi, E., Saefulhakim, S., & Panuju, R.D., 2009. Perencanaan dan pengembangan wilayah. Yayasan Pustaka Obor Indonesia, Jakarta</p> <p>Shirvani, H., 1985. The Urban Design Process. New York: Van Nostrand Reinhold Company</p> <p>Surya, B., 2014. Globalization, Modernization, Mastery of Reproduction of Space, Spatial Articulation and Social Change in Developmental Dynamics in Suburb Area of Makassar City (A Study Concerning on Urban Spatial Sociology). Asian Social Science, 10(15), p.261.</p> <p>Yunus, H.S., 2010. Dinamika wilayah peri-urban: Determinan masa depan kota. Pustaka Pelajar, Yogyakarta</p>
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Module of Entrepreneurship					
Module code GEOGUM6046	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Master essential concepts of social sciences as a basis for the development of intellectual capabilities with contextual insights into social sciences independently, collaboratively, and sustainably, and apply them according to their own fields of expertise and technology development				
4	Subject aims This course contains the essentials of entrepreneurship, geographical theories as the foundations of entrepreneurship development, and basic problems of entrepreneurship in Indonesia, fostering entrepreneurship spirit and competences and enabling business sectors identification, business opportunities identification, business opportunities evaluation, suggestions for successes in business, the starting-up of businesses, human resources management in business organizations, fledgling business management, and market network advancement.				
5	Teaching methods Project work, group work, lectures, group discussions				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.				
9	References Buchari Alma, 2008, Kewirausahaan untuk Mahasiswa dan Umum, Alfabeta, Bandung Rambat Lupiyoadi, 2007, Entrepreneurship: From mindset to strategy, Lembaga Penerbit Fakultas Ekonomi Universitas Indonesia Suryana, Kewirausahaan, 2006, Pedoman Praktis: Kiat dan Proses Menuju Sukses, Salemba Empat, Jakarta Suharyadi, dkk, 2007, Kewirausahaan – Membangun Usaha Sukses Sejak Usia Muda, Salemba Empat, Jakarta Masykur Wiratmo, 1996, Pengantar Kewirausahaan, BPFE, Yogyakarta Ari Satriyo Wibowo, 2006, 45 Kisah Bisnis Top Pilihan, Elex Media Komputindo, Jakarta				

	<p>Buku-buku Kewirausahaan dan sumber lain dari internet</p> <p>Alex S. Nitisemito, 2005, 21 Jurus Entrepreneur sukses, Yogyakarta, Bridge Publissing</p> <p>Edy Zaques, 2005, Resep Cespleng Berwirausaha, Yogyakarta, Gradien Books.</p> <p>Fachmi Casofa, 2009, Muslim Padat Karya: Satu Jiwa Sejuta Karya, Solo Gazzza Media.</p> <p>Herwan Abdul Muhyi, 2007, Membangkitkan Jiwa dan Kompetensi Kewira Usahaan (Makalah), UNPAD, Bandung.</p> <p>Imam Supriono, 2007, FSQ (Memahami, Mengukur, dan melejitkan Financial Spiritual Quotion untuk Keunggulan diri, Perusahaan dan Masyarakat, Surabaya, Lutfansah Mediatama.</p> <p>Imam Musbikin, 2009. Anda Bertakdir Kaya, Yogyakarta, Gazzailmu</p> <p>Maskur Wiratmo, Tanpa tahun, Kewirausahaan (Seri Diktat Kuliah), Universitas Gunadarma.</p> <p>The Manajement Lecture Resume : Persoalan Dasar Kewirausahaan Indonesia, http://elqorni.wordpress.com/author/elqorni.</p> <p>Soesarsono Wijandi, 2000, Pengantar Kewiraswastaan, Bandung, Sinarbaru Algesindo.</p> <p>Winarto , 2008, Membangun Kewirausahaan Sosial, “ Meruntuhkan dan Membangun Sistem Secara Kreatif, Pasca Sarjana UGM</p>
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Module of Disaster Geography					
Module code GEOGUM6047	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 35.00 hours	Independent study 48.33 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze environmental and disaster phenomena through territorial, social, and economic surveys using geospatial technologies with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to study disaster phenomena through disaster risk analysis that involves physical and social components, including measurements of hazard, vulnerability, and capacity.				
5	Teaching methods Project work, case studies, group work, lectures, group discussions				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Syamsul Bachri, S.Si., M.Sc., Ph.D.				
9	References Ben Wisner, Piers Blaikie, Terry Cannon and Ian Davis (2003), At Risk: Natural Hazards, People's Vulnerability and Disasters, Routledge, Taylor and Francis, USA. Gilbert F. White (1974), Natural Hazards: Local, National, Global, Oxford University Press, New York. C. Van Westen; M. Damien; Wim Feringa (2013): National Scale Multi-hazard risk assessment. ITC T. Ouattara, R. Couture, P.T. Bobrowsky, and A. Moore, 2004: Remote sensing and geosciences, RICHARD J. LISLE, 2004: Geological structures and map; A practical guide, R. M. TEEUW, 2007: Mapping Hazardous Terrain using Remote Sensing, Reed Wicander and James S. Monroe, 2002: Essential geology, third edition, William M. Marsh , Martin M. Kaufman : Physical Geography Great Systems and Global Environments Cambridge University press 2012 Journal				

	Natural hazards, Elsevier Natural hazard and earth system science, EGU Journal volcanology and geothermal research, Elsevier Disaster Prevention and Management, Emerald. Disaster, The Journal of Disaster Studies, Policy and Management, Blackwell International Journal of Disaster Resilience in the Built Environment, Emerald
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Module of Fieldwork Course (KKL) III						
Module code GEOGUM6048		Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory		Contact hours 56.67 hours	Independent study 0 hours		Class size 40 students
2	Prerequisites for participation GEOGUM6040					
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users					
4	Subject aims Students are able to plan field study activities, make a fieldwork course (KKL) proposal, apply geographic approaches and methods to solve problems in a region, present the KKL results, and make a report of the KKL results and publicize it.					
5	Teaching methods Case studies, group work, outdoor studies					
6	Assessment methods Scores of activeness and KKL report					
7	This module is used in the following degree programmes as well Only for bachelor degree student level					
8	Responsibility for module Dr. Didik Taryana, M.Si.					
9	References Arikunto, Suharsimi. 1989. Prosedur Penelitian. Jakarta: Rieneka Cipta. Daldjoeni, N. 1987. Pokok-pokok Geografi Manusia. Bandung: Alumni. Getis, Arthur. 1990. Human Geography, Culture and Environment. New York: Mc. Millan Publishing Company. Faisal, Sanapiah. 1989. Penelitian Sederhana. Malang: YA3. Furchan Arief. 1982. Pengantar Penelitian Dalam Pendidikan. Surabaya: Usaha Nasional. Hammond, Charles Whyne. 1985. Elements of Human Geographphy. London: George Allen & Unwin Publishers. Lloyd Haring, L. John F. Lounsbury. 1983. Introduction to Scientific Geographic Researchs. United States of America: Wm. C, Brown Company. Mubyarto. 1994. Profil Desa Tertinggal. Jakarta: BAPPENAS. Muhammad, Ali. 1987. Penelitian Kependidikan, Prosedur dan Strategi. Bandung: Angkasa. Nilanjana Mukherjee. 2002. Poverty, People and Livelihoods: Links For Sustainable Poverty Reduction in Indonesia. Jakarta: Departemen for International Development (DFID) WB. Salladien dan M. Zaini Hasan. 1996. Pengantar Ilmu Sosial. Jakarta: P dan K Dirjen Dikti. Tim UM. 2018. Pedoman Penulisan Karya Ilmiah. Malang: Universitas Negeri Malang.					

Module of Work-Study in the Field (KKN)					
Module code UKKNUM6090	Student workload 162.67 hours	Credits (ECTS) 6.51	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	Contact hours 140.00 hours	Independent study 22.57 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Have the knowledge and abilities to behave as citizens who are religious, have a love for the state, nation, and Indonesian culture based on the Pancasila spirit, and have independence in creating work innovatively, adaptively, and critically according to the global dynamics				
4	Subject aims Undertake steps in community service function using the knowledge gained and the scientific and technological products of research Demonstrate an attitude that reflects social adeptness in society to improve the quality of the institutional function in society and the quality of society life Establish partnership and develop cooperative networks involving local governments, state-owned enterprises, local-owned enterprises, and the business and industrial world synergetically between universities and society.				
5	Teaching methods Outdoor study, group work, project work				
6	Assessment methods Scores of project and KKN report				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Didik Taryana, M.Si.				
9	References Universitas Negeri Malang. 2017. Pedoman Penulisan Karya Ilmiah. Malang: UM Press				

Module of Bachelor's Thesis					
module code GEOGUM6100	student workload 242.00 hours	Credits (ECTS) 9.68	semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory	contact hours 210.00 hours	independent study 32.00 hours	class size 40 students	
2	Prerequisites for participation GEOGUM6041				
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users				
4	Subject aims Students are able to identify and formulate problems in the field of geography, solve problems scientifically through research, and formulate a piece of scientific work in the form of Bachelor's thesis and defend it at a scientific forum.				
5	Teaching methods Discussions, face-to-face counseling				
6	Assessment methods Score of a scientific article in the form of a Bachelor's thesis				
7	This module is used in the following degree programmes as well Only for bachelor degree student level				

8	Responsibility for module Dr. Didik Taryana, M.Si.
9	References Pedoman Penulisan Karya Ilmiah. 2000. Edisi ke 4. Penerbit UM Arikunto, Suharsimi. 1989. Prosedur Penelitian. Jakarta: PT. Rieneka Cipta. Faisal, Sanapiah. 1989. Penelitian Sederhana. Malang: YA3. Furchan Arief. 1982. Pengantar Penelitian Dalam Pendidikan. Surabaya: Usaha Nasional. Muhammad, Ali. 1987. Penelitian Kependidikan, Prosedur dan Strategi. Bandung: Angkasa. Jurnal, artikel, prosiding seminar geografi sesuai dengan topik yang dipilih

Module of Agricultural Geography						
Module code GEOGUM6074		Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 23.33 hours	Independent study 60.00 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context					
4	Subject aims Students are able to understand the philosophy of agricultural geography and to develop various agricultural problems through agricultural studies using spatial, environmental, and regional approaches.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronus and Synchronus)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Dr. Satti Wagistina, S.P., M.Si.					
9	References Geertz, C., 1983, Involusi Pertanian: Proses Perubahan Ekologi di Indonesia, Jakarta: Bhratara Karya Aksara, terjemahan dari: Agriculture Involution: The Process of Ecological Change in Indonesia, Berkeley and Los Angeles: University of California Press, 1963 . Husain, M., 1996. Systematic agricultural geography. Iskandar, J., 2009. Ekologi manusia dan pembangunan berkelanjutan. Program Studi Magister Ilmu Lingkungan, Universitas Padjadjaran. Knox, P.L., Marston, S.A. and Imort, M., 2016. Human geography: Places and regions in global context. Pearson. Las, I., 1991. Peta agroekologi utama tanaman pangan di Indonesia. Pusat Penelitian dan Pengembangan Tanaman Pangan, Badan Penelitian dan Pengembangan Pertanian, Departemen Pertanian. Singh, J. and Dhillon, S.S., 2004. Agricultural geography. Tata McGraw-Hill. Van Huylenbroeck, G. and Durand, G. eds., 2003. Multifunctional agriculture: a new paradigm for European agriculture and rural development. Aldershot: Ashgate.					

Module of Cultural Geography					
Module code GEOGUM6075	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Students are able to analyze diversity in national culture as national identity based on its uniqueness and distribution, understand cultural concepts, universal elements of culture, natural and cultural landscape, globalization and its effects spatially, and diversity in Indonesian culture as national strength, present reports in the form of papers based on the results of field observations, analyses, expositions, and predictions of data on cultural dynamics and their impacts on the environment spatially, organize exhibition of the diverse cultures in Indonesia (traditional attires, traditional house miniatures, local foods, games, folklores, and attractions), and make a map of local culture distribution as part of the global culture.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ifan Deffinika, S.Si., M.Sc.				
9	References James M. Rubenstein, The Cultural Landscape: An Introduction to Human Geography, 9th edition, 2007 Huntington, Ellsworth & Shaw B., Earl, 1961. Principles of Human Geography, Sixth Edition. New York: John Wiley and Sons Inc. Keith Chapman. 1973. People Pattern and Process. New York: A Halsted Press Book Kolar, John E. dan John D. Nystuen. 1974. Human Geography: Spatial Design in World Tjasyono, B. 1986. Iklim dan Lingkungan. Bandung: Cendekia Jaya Utama				

Module of Physical Geography Research Methods (M1)					
Module code GEOGUM6053	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users				
4	Subject aims Students are able to master and apply research methods to design and write research in the field of physical geography.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				

6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Prof. Dr. Sugeng Utaya, M.Si.
9	References Creswell, J.W dan Clark, VLP. 2007. Designing and Conducting, Mixer Methods Research. California: Soge Publication. Inc. Djarwanto dan Subagyo, Pangestu. 1991. Masalah Induktif. Yogyakarta: Badan penerbitan Fakultas Ekonomi UGM Sanusi, Anwar. 2003. Metodologi Penelitian Praktis. Malang: Penerbit Buntara Media Sastrasupadi, Adji. 2000. Rancangan Percobaan Proses, Bidang Pertanian. Yoyakarta: Penerbit Kanisius. Sedarmayanti dan Hidayat, Syarifudin. 2002. Metodologi Penelitian. Bandung: CV Mandar Maju. Sugito, Yogi. 1995. Metodologi Penelitian. Malang: Lembaga Penerbitan Fakultas Pertanian Universitas Brawijaya. Sumaatmadja, Nursid. 1988. Studi Geografi, suatu pendekatan dan analisa Keruangan. Bandung: Penerbit Alumni

Module of Research Methods in Population (M2)						
Module code GEOGUM6062		Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00 hours	Independent study 88.00 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users					
4	Subject aims Students are able to process information and present research-based data using innovative geographic approaches and principles in order to solve demographic problems with softfile or hardfile scientific work output according to field data that is to be exposed in presentation.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Prof. Dr. Budjianto, M.Sos.					
9	References Singarimbun, Efendi. 2011. Metodologi Penelitian Surve. Jakarta: LP3S. Creswell, John W. 2015. Penelitian Kualitatif dan Desain Riset. Yogyakarta: Pustaka Pelajar. Maleong. Lexy J. 2013. Metode Penelitian Kualitatif. Bandung: Remaja Rosdakarya Mantra, Ida Bagus. 2004. Filsafat Penelitian dan Metode Penelitian Sosial. Yogyakarta: Pustaka Pelajar. Fatchan. 2011. Metodologi Penelitian Kualitatif. Jakarta: Grafindo. Sugiyono. 2012. Metodologi Penelitian Kualitatif, Kuantitatif dan R&D. Bandung: Alfabeta.					

Module of Research Methods in Tourism (M3)					
Module code Geogum6068	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users				
4	Subject aims Students are able to master and apply research methods to design and write research in the field of tourism.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. I Komang Astina, M.S				
9	References Creswell, J.W dan Clark, VLP. 2007. Designing and Conducting, Mixer Methods Research. California: Soge Publication. Inc. Djarwanto dan Subagyo, Pangestu. 1991. Masalah Induktif. Yogyakarta: Badan penerbitan Fakultas Ekonomi UGM Sanusi, Anwar. 2003. Metodologi Penelitian Praktis. Malang: Penerbit Buntara Media Sastrasupadi, Adji. 2000. Rancangan Percobaan Proses, Bidang Pertanian. Yoyakarta: Penerbit Kanisius. Sedarmayanti dan Hidayat, Syarifudin. 2002. Metodologi Penelitian. Bandung: CV Mandar Maju. Sugito, Yogi. 1995. Metodologi Penelitian. Malang: Lembaga Penerbitan Fakultas Pertanian Universitas Brawijaya. Sumaatmadja, Nursid. 1988. Studi Geografi, suatu pendekatan dan analisa Keruangan. Bandung: Penerbit Alumni				

Module of Transport Geography					
Module code GEOGUM6078	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Students are able to understand basic knowledge on transport geography and skilfully design, conduct, and communicate studies in the field of transport geography with a logical, critical, systematic, innovative thinking using technologies, taking into consideration humanistic values according to their fields of expertise.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				

6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Ifan Deffinika, S.Si., M.Sc
9	<p>Abler, Ronald, Peter Gould, 1972. Spatial Organization, the Geographers Views. Prentice Hall Int. Inc.</p> <p>Departemen Perhubungan RI. 2005. Sistem Transportasi Nasional (SISTRANAS).</p> <p>Hobbs, FD. 1995. Perencanaan dan Teknik Lalu lintas.</p> <p>Setijowarno, J. 2001 Pengantar Sistem Transportasi. Semarang: Penerbit Unika.</p> <p>Kodoati, Robert. 1994. Analisa Ekonomi Teknik. Yogyakarta: Andi Offset</p> <p>Morlock, Edward K.1985. Pengantar Teknik dan Perencanaan Transportasi. Jakarta: Erlangga.</p> <p>Munawar, Ahmad. 2004. Manajemen Lalu Lintas Perkotaan. Yogyakarta: Beta Offset.</p> <p>Nasution. 1996. Manajemen Transportasi. Jakarta: Ghalia Indonesia.</p> <p>Salim, Abbas. 2002. Manajemen Transportasi. Jakarta: Grafindo Persada</p> <p>Kementerian Negara Riset dan Teknologi Indonesia. 2006. Buku Putih Transportasi Indonesia Tahun 2005-2025. Jakarta: Kementerian Negara Riset dan Teknologi Indonesia.</p> <p>Nasution, M.Nur. 2008. Manajemen Transportasi. Edisi Ketiga. Jakarta: Ghalia Indonesia</p> <p>Peraturan Pemerintah No. 43 Tentang Prasarana Lalu LintasJalan. 1993</p> <p>Pujawan, I Nyoman. 2005. Managemen Transportasi.</p> <p>Sani, Zulfiar 2010. Transportasi: Suatu Pengantar. Jakarta: Penerbit Universits Indonesia</p> <p>Spillen, Mc Donnal. 1987. Pariwisata Indonesia. Yogyakarta: Kanisius.</p> <p>Tamin, Ofyar Z. 2000. Perencanaan dan Pemodelan Transportasi. Bandung: ITB</p> <p>Thoman, Richard S. 1972. The Geography of Economic Activities. New York: Mc Graw Hill Book Co, Inc,</p>
	<p>Undang-Undang No. 38 Tahun 2008 Tentang Jalan</p> <p>Undang-Undang No. 14 tahun 1992. Undang-undang Lalulintas dan Angkutan Jalan</p>

Module of Geohydrology (M1)					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6049	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to explain and analyze the basic concepts of geohydrology as part of the science of geography, groundwater formation, the relationship and interaction between groundwater and geology, groundwater characteristics, groundwater potentials, groundwater exploitation and conservation, groundwater polution, and seawater intrusion.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module				

	Ferryati Masitoh, S.Si., M.Si
9	References Kodoati, Robert J., dan Roestam Sjarief, 2010. Tata Ruang Airtanah. Andi, Yogyakarta Krusseman, GP, and De Ridder, NA, 1970. Analysis and Evaluation of Pumping Test Data. International Institute for Land Reclamation and Improvement, Wageningen. Krusseman, GP, and De Ridder, NA, 1970. Analysis and Evaluation of Pumping Test Data. Second Edition (Revised Completely). Reprinted Year 2000. International Institute for Land Reclamation and Improvement, Wageningen. Tood, DK. 1980. Groundwater Hydrology. California: John Wiley & Sons, Inc. Utaya, Sugeng, 2012. Pengantar Hidrologi. Aditya Media Publishing, Malang US Environmental Protection Agency, 1995. Technical Guidance Manual For Hydrogeologic Investigations And Ground Water Monitoring. US Environmental Protection Agency

Module of Geohydrology Practicum (M1)					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6050	43.67 hours	1.75	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course		Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to explain, analyze, and master various applications of data processing and interpretation techniques related to groundwater, including groundwater-composing geology materials, aquifer porosity and permeability, groundwater bore drilling, aquifer testing, seawater intrusion data, groundwater estimation and modeling, geophysics application for aquifer testing, and groundwater mapping.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si				
9	References Kodoati, Robert J., dan Roestam Sjarief, 2010. Tata Ruang Airtanah. Andi, Yogyakarta Krusseman, GP, and De Ridder, NA, 1970. Analysis and Evaluation of Pumping Test Data. International Institute for Land Reclamation and Improvement, Wageningen. Krusseman, GP, and De Ridder, NA, 1970. Analysis and Evaluation of Pumping Test Data. Second Edition (Revised Completely). Reprinted Year 2000. International Institute for Land Reclamation and Improvement, Wageningen. Tood, DK. 1980. Groundwater Hydrology. California: John Wiley & Sons, Inc. Utaya, Sugeng, 2012. Pengantar Hidrologi. Aditya Media Publishing, Malang US Environmental Protection Agency, 1995. Technical Guidance Manual For Hydrogeologic Investigations And Ground Water Monitoring. US Environmental Protection Agency				

Module of Hydrometeorology (M1)					
Module code GEOGUM6051	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation Meteorology and Climatology				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility				
4	Subject aims Students are able to explain, analyze, and master various applications of techniques of the processing and interpretation of rain and other weather data, including data on air temperature, wind, humidity, sunlight intensity, solar radiation, and their applications in various life aspects such as regional rainfall, water balance, water need, and draught disaster forecasts.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si				
9	<p>Andy D. Word and Stanly W. Trimble, 2004. Environmental hydrology, 2nd ed, Levis Publisher</p> <p>Donn, Wiliam L. 1975. Meteorology. New York: Forth Edition. McGraw Hill Book Company</p> <p>FAO (Food and Agriculture Organization), 1998, Guidelines for computing crop water requirements, Authors : Allen, R.G, L.S. Rereira, D. Raes and M. Smith, Irrigation and Drainage Paper 56, Rome, Italy</p> <p>Hadisusanto, Nugroho, 2010. Aplikasi Hidrologi. Jogja Mediautama, Yogyakarta</p> <p>Handoko. 1995. Klimatologi Dasar, Landasan Fisika Atmosfer dan Unsur-unsur Iklim. Bogor: Pustaka Jaya</p> <p>Indarto, 2014. Hidrologi: Dasar Teori dan Aplikasi Contoh Model Hidrologi. Bumi Aksara, Jakarta</p> <p>Kodoati, Robert J., dan Roestam Sjarief, 2010. Tata Ruang Air. Andi, Yogyakarta</p> <p>Prijono Sugeng, 2009. Agrohidrologi Praktis, Cakrawala Indonesia, Malang</p> <p>Suwarno, 1995. Hidrologi, Jilid 1: Aplikasi Metode Statistik untuk Analisa Data. Penerbit Nova, Bandung</p> <p>Suwarno, 1995. Hidrologi, Jilid 2: Aplikasi Metode Statistik untuk Analisa Data. Penerbit Nova, Bandung</p> <p>Triatmojo, Bambang, 2013. Hidrologi Terapan. Penerbit Beta Offset, Yogyakarta</p> <p>Tyasyono, Bayong. 1992. Klimatologi Terapan. Bandung: Permai Jaya</p> <p>Utaya, Sugeng, 2012. Pengantar Hidrologi. Aditya Media Publishing, Malang</p> <p>Wilson, EM, 1993. Hidrologi Teknik. Penerbit ITB, Bandung</p>				

Module of Hydrometeorology Practicum (M1)					
Module code GEOGUM6052	Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 20.34 hours	Class size 40 students	
2	Prerequisites for participation Meteorology and Climatology				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;				
4	Subject aims Students are able to explain, analyze, and master various applications of techniques of the processing and interpretation of rain and other weather data, including data on air temperature, wind, humidity, sunlight intensity, solar radiation, and their applications in various life aspects such as regional rainfall, water balance, water need, and draught disaster forecasts.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si				
9	<p>Andy D. Word and Stanly W. Trimble, 2004. Environmental hydrology, 2nd ed, Levis Publisher</p> <p>Donn, Wiliam L. 1975. Meteorology. New York: Forth Edition. McGraw Hill Book Company</p> <p>FAO (Food and Agriculture Organization), 1998, Guidelines for computing crop water requirements, Authors : Allen, R.G, L.S. Rereira, D. Raes and M. Smith, Irrigation and Drainage Paper 56, Rome, Italy</p> <p>Hadisusanto, Nugroho, 2010. Aplikasi Hidrologi. Jogja Mediautama, Yogyakarta</p> <p>Handoko. 1995. Klimatologi Dasar, Landasan Fisika Atmosfer dan Unsur-unsur Iklim. Bogor: Pustaka Jaya</p> <p>Indarto, 2014. Hidrologi: Dasar Teori dan Aplikasi Contoh Model Hidrologi. Bumi Aksara, Jakarta</p> <p>Kodoati, Robert J., dan Roestam Sjarief, 2010. Tata Ruang Air. Andi, Yogyakarta</p> <p>Prijono Sugeng, 2009. Agrohidrologi Praktis, Cakrawala Indonesia, Malang</p> <p>Suwarno, 1995. Hidrologi, Jilid 1: Aplikasi Metode Statistik untuk Analisa Data. Penerbit Nova, Bandung</p> <p>Suwarno, 1995. Hidrologi, Jilid 2: Aplikasi Metode Statistik untuk Analisa Data. Penerbit Nova, Bandung</p> <p>Triatmojo, Bambang, 2013. Hidrologi Terapan. Penerbit Beta Offset, Yogyakarta</p> <p>Tyasyono, Bayong. 1992. Klimatologi Terapan. Bandung: Permai Jaya</p> <p>Utaya, Sugeng, 2012. Pengantar Hidrologi. Aditya Media Publishing, Malang</p> <p>Wilson, EM, 1993. Hidrologi Teknik. Penerbit ITB, Bandung</p>				

Module of Structural and Process Geology (M1)					
Module code GEOGUM6054	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;				
4	Subject aims Students are able to explain and analyze the concepts of structural and process geology as part of the science of geography, and to master various applications of techniques of the process and interpretation of data related to geological structure, including applied structural geology for life, geological structure identification, structural geology geometry, force and pressure on geological structure, joint concepts and their applications, the concepts, reconstruction, and applications of fold geological structure, and the concepts, reconstruction, and applications of fault geological structure.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Listyo Yudha Irawan, S.Pd., M.Pd., M.Sc				
9	Barnes, James W and Lisle, Richard J. 2004. Basic Geological Mapping. Fourth Edition. John Wiley & Sons Ltd Blenkinsop, Tom. 2002. Deformation Microstructures and Mechanisms in Minerals and Rocks. Kluwer Academic Publishers. Catuneanu, Octavian. 2006. Principles Of Sequence Stratigraphy. Elsevier. Condie, Kent C. 1976. Plate Tectonics and Crustal Evolution. Fourth edition. Butterworth-Heinemann Elsevier Science. Davis, George H; Reynolds, Stephen J. And Kluth, Charles F. 2012. Structural Geology Of Rocks And Regions. . John Wiley & Sons Inc Nichols, Gary. Sedimentology and Stratigraphy. Second Edition. Wiley-Blackwell, John Wiley & Sons Ltd Price, Monica and Walsh, Kevin. 2005. Pocket Nature: Rocks & Minerals. Dorling Kindersley. Ragan, Donal M. 2009. Structural Geology: An Introduction to Geometrical Techniques. Fourth Edition. Cambridge University Press.				

Module code GEOGUM6060	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Students are able to understand and analyze planning concepts and the process of society development planning, planning models, population planning and development, tasks of the population planning section, and population planning data management.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Prof. Dr. Budjianto, M.Sos				
9	References Mastra, Ida Bagus. 2011. Demografi Umum. Edisi Ketiga. Yogyakarta:Pustaka Pelajar. Budiarto dan Rozy Munir, 2001. Dasar-Dasar Demografi. Jakarta LDFEUI Moeliono, Laurike, 2014. Materi Bantu Penyuluhan Kependudukan dan Pembangunan Keluarga. Jakarta: Direktorat Kerjasama Pendidikan Kependudukan BKKB Pusat. Irianto, Agus. 2016. Demografi dan Kependudukan. Jakarta: Kencana Munir, Rozidan Budiarto. 1986. Teori-Teori Kependudukan. Jakarta: PT BinaAksara. Shyock, H.S., and Siegel 1971. The Methods and Materials of Demography. Washington DC: U.S.Bureau of the Census				

Module of Population Dynamics (M2)					
Module code GEOGUM6061	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Be able to analyze the elements of human geography related to social, economic, and demographic phenomena and to combine, process, and interpret demographic and population information from regional survey as well as census data; Be able to apply a logical, critical, systematic, innovative thinking in the context of science and technology development or implementation taking into consideration and applying solutions in population dynamics; Be able to conduct a survey and make a report in the field of population dynamics.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				

7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Dr. Singgih Susilo, M.S., M.Si.
9	Biro Pusat Statistik. 2011. Sensus Penduduk 2010. Jakarta: BPS BKKBN, 1994. Pembangunan Keluarga Sejahtera. Jakarta: BKKBN Budiarto, 2007. Dasar-Dasar Demografi. Jakarta:LDFEUI Mantra.I.B.2000. Demografi Umum .Yogyakarta: Pustaka Pelajar Pollard,A.H., Fathat Yusuf., and G.N. Pollard.1994. Demographic Techniques Australia: Pergamon Press Shyrock, Henry S, and Siegel.1971. The Methods and Materials of Demography .Washington D.C: US Bureau of The Cencus Said Rusli. 1983. Pengantar Ilmu Kependudukan. Jakarta: LP3ES Lee, Everett. 1980. A Theory Of Migration. New York: McGraw-Hill Book Company Tukiran. 2000. Penduduk dan Pembangunan Berkelanjutan. Yogyakarta: PPK

Module of Population Information System (M2)					
Module code GEOGUM6064	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation Geographic Information System				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				
4	Subject aims Students are able to understand, apply, and analyze demographic information through geospatial technology concepts, spatial data types, spatial data sources, SIG components, SIG steps, SIG usage, and SIG functions to plan mapping using SIG through the steps of data input, data processing, data analysis, data visualization, and layouting, with products in the form of analog and digital maps.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ifan Deffinika, S.Si., M.Sc				
9	Suryantoro, A. 2007. Sistem Informasi Geografi. Lab Geografi FIS UM. Purwanto, 2013. Modul Aplikasi ArcGIS v 10. Laboratorium Geografi FIS UM Purwanto, 2011. Pengantar SIG Dasar. Lab. Geografi. UM tidak diterbitkan http://gen.lib.rus.ec/ Munir, Rozidan Budiarto. 1986. Teori-Teori Kependudukan. Jakarta: PT BinaAksara. Shyock, H.S., and Siegel 1971. The Methods and Materials of Demography. Washington DC: U.S.Bureau of the Census				

Module of Evaluation of Tourism Potential (M3)					
Module code GEOGUM6067	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation Tourism Geography				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to analyze natural and environmental resources utilization in the field of tourism effectively and efficiently, and to make decisions correctly according to the context and the concept of sustainable development.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.				
9	Damanik, Janianton dkk. 2018. Membangun Pariwisata Dari Bawah. Yogyakarta: UGM Press Richards, Greg Munsters, Wil. 2010. Cultural Tourism Research Methods. Wallingford: CABI Publishing. Pitana, I Gede. 2009. Pengantar Pariwisata. Surabaya: Andi Publisher. Indriyo Gitosudarmo. 2008. Manajemen Pariwisata. Yogyakarta: BPFE. Syahid, A. R. (2016). Ecotourism, Pariwisata Berwawasan Lingkungan. Retrieved from https://studipariwisata.com/analisis/ecotourismpariwisata-berwawasan-lingkungan/#Daerah-yang-biasa-dijadikankawasan-ekowisata Marpaung, Happy. 2002. Pengetahuan Kepariwisata. Bandung: Alfabeta.				

Module of Tourism Economics (M3)					
Module code GEOGUM6069	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Students are able to design, conduct, and communicate research plan in the field of tourism with a logical, critical, systematic, innovative thinking in the context of science and technology development or implementation taking into consideration and applying humanistic values according to their own fields of expertise.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				

7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.
9	<p>Burton, Rosemary. 1991. Travel Geography. London: Pitman Publishing.</p> <p>Bull, Adrian. 1992. The Economics of Travel and tourism. Melbourne: Wiley.</p> <p>Gee, Chuk, dkk. 1984. The Travel Industry. Connecticut: The AVI Publishing Company.</p> <p>Gunawan, Myra Dkk, 2006, Naskah Akademik, UU tentang Kepariwisata, Draf, tidak dipublikasikan.</p> <p>Kusmayadi dan Endar Sugiarto. 2000. Metodologi Penelitian dalam Bidang Kepariwisata. Jakarta: Gramedia Pustaka Utama.</p> <p>Kusmayadi. 2004. Statistika Pariwisata Deskriptif. Jakarta: Gramedia Pustaka Utama.</p> <p>Marpaung Happy dan Herman Bahar. 2002. Pengantar Pariwisata. Bandung. Alfabeta.</p> <p>Pearce, Douglas. 1987. Tourism to A Geography Analysis. New York: Long Man.</p> <p>Pendit, Nyoman S. 2006. Ilmu Pariwisata: Sebuah Pengantar Perdana. Jakarta: Pradnya Paramita.</p> <p>Pitana, I Gde dan I Ketut Surya Diarta. 2009. Pengantar Ilmu Pariwisata. Yogyakarta: Penerbit Andi.</p> <p>Spillane, James. 1987. Manajemen Kepariwisata. Jakarta: Pradnya Paramita.</p> <p>Yoeti, Oka. 1982. Pengantar Pariwisata. Bandung: Angkasa.</p> <p>Yoeti, Oka. 1985. Pemasaran Pariwisata. Bandung: Angkasa.</p> <p>Yoeti, Oka. 2008. Ekonomi Pariwisata: Introduksi, Informasi dan Implementasi. Jakarta: Penerbit Buku Kompas</p>

Module of Tourism Information System (M3)						
Module code GEOGUM6072		Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00 hours		Independent study 88.00 hours	Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty					
4	Subject aims Students are able to study, apply, and analyze spatial and non-spatial data based on the dynamics of tourism information systems to build a sustainable database, form an information system portfolio, build a tourism information system, improve technology literacy both on an open-source and on a professional basis, and report results in the form of an information system product, both in writing and orally.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.					
9	References An Introduction To Database Systems C.J Date, Addison Wesley Publishing Co., Inc, 1995 Database Systems Concepts Korth and Silberschatz, Mc. Graw-Hill International Co., 1986 Database Design G. Wiedelhold, Mc. Graw-Hill International Co., 1988 Database Processing : Fundamental, Design, Implementations D.M Kroenke, Sciences Research Associates, Inc. 1983					

<p>Sistem Basis Data Edhy Sutanta, Penerbit ANDY, Yogyakarta, 1996 Konsep dan Perancangan Database Harianto Kristanto, Penerbit ANDY, Yogyakarta, 1993 Basis Data Fathansyah, Penerbit Informatika, Bandung, 1999 Alexis Papathanassis, 2004. Strategie, Marketing und Informationsmanagement Post-Merger Integration and the Management of Information and Communication Systems: An analytical framework and its application in tourism Grant Ian Thrall, 2002. Business Geography and New Real Estate Market Analysis (Spatial Information Systems) David Bairman, 2003. Restoring Tourism Destinations In Crisis A Strategic Marketing Approach Victor TC Middleton , Alan Fyall , Mike Morgan , Ashok Ranchhod BSc. MSc. MBA PhD. FCIM, 2009. Marketing in Travel and Tourism, Fourth Edition. Siau K., 2009. Contemporary Issues in Database Design and Information Systems Development Gabor Knapp, 2007. Gabor Knapp, Gregory Wojtkowski, Joze Zupancic, Stanislaw Wrycza, Advances in Information Systems Development</p>					
Module of Terrestrial Survey *(M1)					
Module code GEOGUM6084	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation Geomorphology, Land Surveying				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;				
4	Subject aims Students are able to apply the concepts, scope, and roles of geomorphological survey and mapping to study geography, covering the approaches of geomorphological survey and mapping, the scale and types of geomorphological survey and mapping, the aspects of geomorphological mapping like morphology, morphogenesis, morphochronology, and morphoarrangement, the techniques and systems of geomorphological mapping, and the applications of geomorphological survey and mapping in environmental studies.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Listyo Yudha Irawan, S.Pd., M.Pd., M.Sc				
9	References Arronof, S. 1991. Geographic Information System; A Management Perspective. Barrough. 1986. Principle of Geographical Information System for Land Resources Assembly. DeMers, M, 1997, Fundamentals of Geographic Information Systems, New York, John Wiley and Sons, Inc. Kauffman, N, 1996, Exploring Geographic Information System, Canada, John Wiley dan Sons, Inc. Lobeck A. K. 1939. Introduction to Study of Landscape. New York: Mc.Graw Hill Book Company.				

	<p>Michael W Demers. 1997. Fundamentals of Geographic Information System.</p> <p>Summerfield, M.A. 1991. Global Geomorphology: An Introduction to the Study of Landforms. New York: Longman</p> <p>Thornburry, W.D. 1969. Principles of Geomorphology. New York: John Wiley and Sons Inc.</p> <p>Verstappen, H.Th. 1983. Applied Geomorphology Geomorphological Survey for Environment. Amsterdam: Elsevier.</p>
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Module of Hydrographic Mapping (M1)					
Module code GEOGUM6085	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;				
4	Subject aims Students are able to study, apply, and analyze the potentials of water resources by conducting hydrographic survey, make an inventory of water resources using remote sensing and SIG, identify special properties of water using the infrared spectrum, identify water resources using imaging, identify the form of fluvial land, survey water pollution using imaging, identify lake water quality using imaging, and survey and identify land damages due to flood disaster using geospatial technologies, and then make a presentation in the form of report.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si.				
9	References Bandat, von. 1964 Aerogeology. Gulf Publ. Co. Texas Houston. Estes, J.E. 1974. Imaging with Photographic and Non-Photographic Sensor System. In: Remote Sensing Techniques for Environmental Analysis. California: Hamilton Publ. Co. Hartono, Rudi., 2001. Penginderaan Jauh. Lab Geografi FMIPA UM' Lillesand and Kiefer. Remote Sensing and Image Interpretation. New York: John Wiley and Sons. Sutanto. Penginderaan Jauh. Jilid 1 dan Jilid 2. UGM Press: Yogyakarta Suryantoro. Agus. 2004. Penginderaan Jauh dan Interpretasi Citra. Lab Geografi FMIPA UM Walton. DC. 1979. Ground Water Hydrology..John Wiley and sons. Verstappen. 1983. Applied Geomorphology, ITC. Nederland				

Module of Migrant Workers Analysis *(M2)					
Module code GEOGUM6088	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Students are able to understand and analyze planning concepts as well as society development planning processes, planning models, population planning and development, tasks of population planning sections, and population planning data management.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Dr. Singgih Susilo, M.S., M.Si				
9	References Mastra, Ida Bagus. 2011. Demografi Umum. Edisi Ketiga. Yogyakarta:Pustaka Pelajar. Budiarto dan Rozy Munir, 2001. Dasar-Dasar Demografi. Jakarta LDFEUI Moeliono, Laurike, 2014. Materi Bantu Penyuluhan Kependudukan dan Pembangunan Keluarga. Jakarta: Direktorat Kerjasama Pendidikan Kependudukan BKKB Pusat. Irianto, Agus. 2016. Demografi dan Kependudukan. Jakarta: Kencana. Munir, Rozidan Budiarto. 1986. Teori-Teori Kependudukan. Jakarta: PT BinaAksara. Shyock, H.S., and Siegel 1971. The Methods and Materials of Demography. Washington DC: U.S.Bureau of the Census				

Module of Fertility Survey and Analysis (M2)					
Module code GEOGUM6089	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Students are able to understand, apply, and analyze population history, fertility measures, fertility data sources, direct and indirect variables, fertility differences based on society's socioeconomic conditions, future fertility projection, and the failure of the role of fertility in population development, with student scientific work outputs in softfile and hardfile formats, which are also to be delivered through presentations.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods				

	Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Ifan Deffinika, S.Si., M.Sc
9	References Shyrock, Henry S, and Siegel.1971. The Methods and Materials of Demography. Washington D.C: US Bureau of The Cencus Hatmadji, Sri Harjati. 1981. "Fertilitas" dalam Dasar-dasar Demografi. Jakarta: Lembaga Demografi Fakultas Ekonomi Universitas Indonesia. Munir, Rozi dan Budiarto. 1986. Teori-Teori Kependudukan. Jakarta: PT Bina Aksara. Mantra, I.B.2012. Demografi Umum. Yogyakarta: Pustaka Pelajar Lucas David.1989. Pengantar Kependudukan. Yogyakarta: UGM Press Said Rusli. 1983. Pengantar Ilmu Kependudukan. Jakarta: LP3ES Lee, Everett. 1980. A Theory Of Migration. New York: McGraw-Hill Book Company Tukiran. 2000. Pendudukdan Pembangunan Berkelanjutan. Yogyakarta: PPK

Module of Tourism Management *(M3)					
Module code GEOGUM6092	Student workload 83.33 hours	Credits (ECTS) 3.33	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Understand the basic concepts of tourism geography, tourism as a system, tourism resources, and the concepts, principles, and methods of tourism management, study resources management, product quality, tourism marketing and risk, organizational management, and travel and transportation, and design tourism management in various geographical levels, using spatial information technologies.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc				
9	References Gede Pitana dan Ketut Surya Diarta. 2009. Pengantar Ilmu Pariwisata. Yogyakarta: Penerbit Andi. Nursid Sumaatmaja. 1981. Studi Geografi, Suatu Pendekatan dan Analisa Keruangan. Bandung: Alumni. James J Spillane. 1994. Pariwisata Indonesia, Siasat ekonomi dan Rekayasa Kebudayaan. Yogyakarta: Kanisius. James J Spillane. 1987. Pariwisata Indonesia Indonesia, sejarah dan Prospeknya. Yogyakarta: Kanisius. Pearce, douglas 1987. Tourism Today, A Geographical Analysis. sons.Inc. New York Gee, Chuck Y et.all. 1984. The Travel Industry. The AVi Publishing Company. Connecticut. Salah Wahab. 1987. Manajemen Kepariwisata. Jakarta: Pradnya Paramita				

	Oka A.Yoeti.1985. Pengantar Ilmu Pariwisata. Bandung: Angkasa Iwan Nugroho. 2009. Ekowisata dan Pembangunan Berkelanjutan. Yogyakarta: Pustaka Pelajar
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Module of Tourist Attraction Development (M3)					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6093	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context				
4	Subject aims Students are able to explain the scope of tourist attraction development and to analyze tourist attraction development based on regional characteristics and spatial reviews for the purpose of development planning.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc				
9	References William,Stephen.2009.Tourism Geography A new Synthesis. Routledge:London & New York Damanik, Janianton dkk.2006.Perencanaan Ekowisata Dari Teori ke Aplikasi.PUSPAR UGM & Penerbit Andi: Yogyakarta Nugroho,Iwan.2011.Ekowisata dan Pembangunan Berkelanjutan.Pustaka Pelajar: Yogyakarta Hall,C.M,Page,S.J.1999.The Geography of Tourism and Recreation: Environment, Place and Space.Routledge:London & New York Muta'Ali, Lutfi. 2013. Pengembangan Wilayah Perdesaan (Perspektif Keruangan)..BPFG: Yogyakarta Suhardjo,A.J.2008. Geografi Perdesaan sebuah Antologi.Ideas Media:Yogyakarta Jayadinata,T,Johara.1999.Tata guna tanah dalam perencanaan perdesaan, perkotaan dan wilayah.ITB:Bandung Arjana,I Gusti.2016.Geografi Pariwisata & Ekonomi Kreatif.Rajawali Press; Jakarta				

Module of Spatial Statistics					
Module code	Student workload	Credits (ECTS)	Semester	Frequency Each Semester	Duration
GEOGUM6035	123.00 hours	4.92	1. Sem.		1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze spatial data with a logical, critical, systematic, innovative thinking and to demonstrate independence and responsibility according to specialty				

4	Subject aims Students are able to understand regional resources management optimally, identify problems of regional resources management analytically, conduct regional resources feasibility studies using various feasibility study methods, and demonstrate the ability to plan regional resources governance, and to report the results (project) as fulfilment of the course's final assignment.
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Ike Sari Astuti, S.P., M.Nat. Res. St., Ph.D.
9	References Cressie, Noel. Statistics for spatial data. (2015). John Wiley & Sons Roger S. Bivand, Edzer J. Pebesma and Virgilio Gómez -Rubio Applied Spatial Data Analysis with R (2008), Springer Lance A. Waller and Carol A. Gotway. Applied Spatial Statistics for Public Health Data (2004), John Wiley & Sons. O. Schabenberger and C. A Gotway. Statistical Methods for Spatial Data Analysis (2005), Chapman & Hall. S.Banerjee, B.Carlin, and A.Gelfand. Bayesian and Hierarchical Modeling of Spatial Data: Hierarchical Modeling and Analysis for Spatial Data (2004), Chapman and Hall.

Module of Watershed Management (M1)						
Module code GEOGUM6055		Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00 hours	Independent study 88.00 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context					
4	Subject aims Students are able to explain and analyze the basic concepts of watershed regional unit as a dynamic aggregate of human, water, land, and forest resources using interdisciplinary approaches by combining geographical, geological, environmental, public policy, and regional planning perspectives and information technologies. This course covers hydrological and geomorphological processes in watershed, watershed characteristics, watershed quality measurement, watershed-based regional planning principles, and modeling introduction in watershed management.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynconus and Synchronus)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Syamsul Bachri, S.Si., M.Sc., Ph.D.					
9	References Andawayati, Ussy. 2019. Pengelolaan Daerah Aliran Sungai (DAS) Terintegrasi. Malang: UB Press.					

	<p>Asdak, Chay. 1995. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Yogyakarta: UGM Press.</p> <p>Beheim, E. G.S. Rajwar, M. Haigh, J. Krecek. 2010. Integrated Watershed Management: Perspectives and Problems. Netherland: Springer..</p> <p>Gonenc, I. Ethem, John P. Wolflin, Rosemarie C. Russo. 2015. Sustainable Watershed Management. Leiden: CRC Press.</p> <p>Gregersen, H.M. et.al. 2007. Integrated Watershed Management; Connecting People to Their Land and Water. CABI publication.</p> <p>Hutagaol, Ria Rosdiana. 2019. Pengaruh Hutan dan Pengelolaan Daerah Aliran Sungai. Sleman: CV Budi Utama.</p> <p>Kodoatie, Robert J. dan Roestam Sjarief. 2010. Tata Ruang Air. Yogyakarta: Penerbit ANDI.</p> <p>Suprayogi, Slamet. Ig.L. Setyawan Purnama, Darmakusuma Darmanto. 2019. Pengelolaan Daerah Aliran Sungai. Yogyakarta: UGM Press.</p>
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Module of Water Quality (M1)					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6056	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course		Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;				
4	Subject aims Students are able to explain and analyze water quality concepts as part of the science of geography in the field of hydrology, which cover water quality monitoring, water macro- and microelements, physical, chemical, and biological water parameters, pollution sources, water quality standard, eutrophication and water conservation, water quality in various landforms, clean water treatment plant, and wastewater treatment plant.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si.				
9	References B.A. Stewart. 1994. Soil Processes and Water Quality. USA: Lewis Publisher Efendi, Hefni, 2003. Telaah Kualitas Air: Bagi Pengelolaan Sumber Daya dan Lingkungan Perairan. Sleman: Kanisius Gupta, Bhagirath Lal. 1979. Water Resources Engineering and Hydrology. New Delhi: Standard Publishers Distributors. Mahida, Un. 1986. Pencemaran Air dan Pemanfaat Limbah Industri. Jakarta: CV Rajawali. R. Chhabra. 1996. Soil Salinity and Water Quality. USA: A.A. Balkema Publisher Seyhan, Ersin. 1977. Fundamental Of Hydrology. Netherland Geografisch Instituut Der RijksUniversiteit Te Utrecht Walton, 1970. Groundwater Resources Evaluation. New York: Graw Hill Book Company				

Module of Water Quality Practicum (M1)						
Module code GEOGUM6057		Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 23.33 hours	Independent study 20.34 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;					
4	Subject aims Students are able to explain and analyze water quality concepts as part of the science of geography in the field of hydrology, which cover methods of water quality monitoring, laboratory analysis of water macro- and microelements, laboratory analysis of water physical, chemical, and biological parameters, polution sources identification, water quality standard analysis, and methods of water quality data mapping and presentation.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynconus and Synchronus)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Ferryati Masitoh, S.Si., M.Si.					
9	References B.A. Stewart. 1994. Soil Processes and Water Quality. USA: Lewish Publisher Efendi, Hefni, 2003. Telaah Kualitas Air: Bagi Pengelolaan Sumber Daya dan Lingkungan Perairan. Sleman: Kanisius Gupta, Bhagirath Lal. 1979. Water Resources Engineering and Hydrology. New Delhi: Standart Publishers Distributors. Mahida, Un. 1986. Pencemaran Air dan Pemanfaat Limbah Industri. Jakarta: CV Rajawali. R. Chhabra. 1996. Soil Salinity and Water Quality. USA: A.A. Balkema Publisher Seyhan, Ersin. 1977. Fundamental Of Hydrology. Nederland Geografisch Instuut Der RijksUniversitiet Te Utrecht Walton, 1970. Groundwater Resources Evaluation. New York: Graw Hill Book Company					

Module of Fieldwork Course (KKL) III						
Module code GEOGUM6048		Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Mandatory		Contact hours 56.67 hours	Independent study -13.00 hours		Class size 40 students
2	Prerequisites for participation GEOGUM6040					
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users					
4	Subject aims Students are able to apply their knowledge in society to find problems that require scientific solutions through steps that include research proposal, data collection and analysis, and report writing.					

5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Dr. Didik Taryana, M.Si
9	References Clifford, Nicholas. Meghan Cope, Thomas Gillespie, Shaun French. 2016. Key Methods in Geography. USA: SAGE Daldjoeni, N. 1987. Pokok-pokok Geografi Manusia. Bandung: Alumni. Faisal, Sanapiah. 1989. Penelitian Sederhana. Malang: YA3. Getis, Arthur. 1990. Human Geography, Culture and Environment. New York: Mc. Millan Publishing Company. Gomez, Basil dan John Paul Jones III. 2010. Research Methods in Geography: A Critical Introduction. USA: John Wiley & Sons. Hammond, Charles Whyne. 1985. Elements of Human Geographphy. London: George Allen & Unwin Publishers. Lloyd Haring, L. John F. Lounsbury. 1983. Introduction to Scientific Geographic Researchs. United States of America: Wm. C, Brown Company. Mubyarto. 1994. Profil Desa Tertinggal. Jakarta: BAPPENAS. Muta'ali, Lutfi. 2000. Teknis Analisis Regional. Yogyakarta: MKPD UGM Nilanjana Mukherjee. 2002. Poverty, People and Livelihoods: Links For Sustainable Poverty Reduction in Indonesia. Jakarta: Departemen for International Development (DFID) Word Bank. Salladien dan M. Zaini Hasan. 1996. Pengantar Ilmu Sosial. Jakarta: P dan K Dirjen Dikti. Tika, Moh Pabundu. 2005. Metode Penelitian Geografi. Jakarta: Bumi Aksara Tim UM. 2018. Pedoman Penulisan Karya Ilmiah. Malang: Universitas Negeri Malang.

Module of Potamology and Limnology (M1)					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6058	83.33 hours	3.33	1. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33 hours	Independent study 60.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;				
4	Subject aims Students are able to analyze and study the basic concepts and scope of potamology and limnology, lake morphology, lake and reservoir damage and pollution control, river, flood, and draught morphometry hydrologically, and water supply, and to offer solutions to the problems that arise.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module				

	Dr. Didik Taryana, M.Si					
9	References Asdak, C. 1995. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Yogyakarta: Gadjah Mada University Press Barus, T.A. 2004. Pengantar Limnologi Studi tentang Ekosistem Air Daratan.Medan: Usu Press. Gupta, Bhagirath Lal. 1979. Water Resources Engineering and Hydrology. New Delhi: Standart Publishers Distributors. Linsley. 1949. Hydrology for Engineer. Tokyo: McGraw Hill Book Company. Mahida, Un. 1986. Pencemaran Air dan Pemanfaat Limbah Industri. Jakarta: CV Rajawali. Martha, Joice. 1980. Mengenal Dasar-dasar Hidrologi. Bandung: Penerbit Nova. Martopo, Sugeng. Danau. Yogyakarta: Fakultas Geografi UGM Seyhan, Ersin. 1977. Fundamental Of Hydrology. Nederland Geografisch Instuut Der Rijks Universitiet Te Utrecht Soemarto. CD. 1990. Hidrologi Teknik. Surabaya: Usaha Nasional Soewarno. 1991. Hidrologi, Pengukuran dan Pengolahan Data Aliran Sungai. Bandung: Penerbit Nova Soewarno. 2000. Hidrologi Operasional. Bandung: Citra Aditya Bakti Sosrodarsono, Suyono dan Takeda, Kensaku. 1992. Hidrologi untuk Pengairan. Jakarta: Pradnya Paramita. Sriharto. 1982. Mengenal Dasar Hidrologi Terapan. Yogyakarta: KM Teknik Sipil UGM Subarkah, Iman. 1992. Hidrologi Untuk Perencanaan Bangunan Air. Bandung: Idea Dharma. Wetzel, R.G. 1983. Limnologi. Saunders College Publ. London					
Module of Potamology and Limnology Practicum (M1)						
Module code GEOGUM6059		Student workload 43.67 hours	Credits (ECTS) 1.75	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00 hours	Independent study 8.67 hours	Class size 40 students	
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to understand geosphere phenomena based on geography principles and approaches with a logical, critical, systematic, innovative thinking through the application of humanist values and responsibility;					
4	Subject aims Students are able to analyze various lake and river morphometric and quality parameters, control lake, reservoir, and river damage, estimate flood dischrage and spread, estimate water supply, map the depth of lake and exsiting flood and map draught hydrologically, and perform flood modelling.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynconus and Synchronus)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Dr. Didik Taryana, M.Si					
9	References Asdak, C. 1995. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Yogyakarta: Gadjah Mada University Press. Barus, T.A. 2004. Pengantar Limnologi Studi tentang Ekosistem Air Daratan.Medan: Usu Press.					

	<p>Gupta, Bhagirath Lal. 1979. Water Resources Engineering and Hydrology. New Delhi: Standart Publishers Distributors.</p> <p>Linsley. 1949. Hydrology for Engineer. Tokyo: McGraw Hill Book Company.</p> <p>Mahida, Un. 1986. Pencemaran Air dan Pemanfaat Limbah Industri. Jakarta: CV Rajawali.</p> <p>Martopo, Sugeng. Danau. Yogyakarta: Fakultas Geografi UGM.</p> <p>Martha, Joice. 1980. Mengenal Dasar-dasar Hidrologi. Bandung: Penerbit Nova.</p> <p>Seyhan, Ersin. 1977. Fundamental Of Hydrology. Nederland Geografisch Instuut Der Rijks Universitiet Te Utrecht.</p> <p>Soemarto. CD. 1990. Hidrologi Teknik. Surabaya: Usaha Nasional</p> <p>Soewarno. 1991. Hidrologi, Pengukuran dan Pengolahan Data Aliran Sungai. Bandung: Penerbit Nova</p> <p>Soewarno. 2000. Hidrologi Operasional. Bandung: Citra Aditya Bakti</p> <p>Sosrodarsono, Suyono dan Takeda, Kensaku. 1992. Hidrologi untuk Pengairan. Jakarta: Pradnya Paramita.</p> <p>Sriharto. 1982. Mengenal Dasar Hidrologi Terapan. Yogyakarta: KM Teknik Sipil UGM</p> <p>Subarkah, Iman. 1992. Hidrologi Untuk Perencanaan Bangunan Air. Bandung: Idea Dharma.</p> <p>Wetzel, R.G. 1983. Limnologi. Saunders College Publ. London</p>
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Module of Engineering Demographic Applications (M2)					
Module code GEOGUM6063	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply geographic knowledge through innovative research and scientific work, follow themes of renewableness, and skillfully communicate ideas to users				
4	Subject aims Understand the position of engineering demography as part of demography, apply and analyze some measures of demographic variables, evaluate data, estimate mortality level, organize data, conduct population projection, analyze population projection in relation to planning in the field of education (teacher and school building needs at the elementary school, junior high school, and senior high school levels), and conduct housing needs planning and food security planning.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module Prof. Dr. Budjianto, M.Sos				
9	References AH Pollard. 1974. Demographic Techniques. Paris: Pergamon Press Barclay GW . 1958. <i>Techniques of population analysis</i> . New York : John Wiley Budijanto. Analisis Demografi Teknik. Malang: UM Press Budijanto. Analisis Sosio Demografi. Malang: UM Press George, Zelinsky Wilbur. 1966. A Prolgue to Population Geography. USA: Prentice-Hall, Mantra, Ida Bagus. 2000. Demografi Umum. Yogyakarta: Pustaka Belajar. Shryock, Henry S. Jacob. S. Siegel. 1980. The Method of Matterial Demography. USA: Academic Press.				

	Burch, Thomas K. 2018. Model-Based Demography: Essays on Integrating Data, Technique and Theory. Switzerland: Springer Open.
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Module of Population Policy (M2)						
Module code GEOGUM6065		Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00 hours	Independent study 88.00 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data					
4	Subject aims Be able to analyze human geographic elements related to social, economic, and demographic phenomena and to combine, process, and interpret population policy information from regional survey and census data, be able to apply a logical, critical, systematic, innovative thinking in the context of science and technology development or implementation taking into consideration and applying problem-solving in population policy, and be able to conduct survey in the field of population policy and make a report of it.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Drs. Djoko Soelistijo, M.Si.					
9	References Biro Pusat Statistik. 2011. Sensus Penduduk 2010. Jakarta: BPS BKKBN, 1994. Pembangunan Keluarga Sejahtera. Jakarta: BKKBN Budiarto, 2007. Dasar-Dasar Demografi. Jakarta:LDFEUI Mantra.I.B.2000. Demografi Umum .Yogyakarta: Pustaka Pelajar Shyrock, Henry S, and Siegel.1971. The Methods and Materials of Demography. Washington D.C.: US Bureau of The Cencus Said Rusli. 1983. Pengantar Ilmu Kependudukan. Jakarta: LP3ES Lee, Everett. 1980. A Theory Of Migration. New York: McGraw-Hill Book Company Tukiran. 2000. Penduduk dan Pembangunan Berkelanjutan. Yogvakarta: PPK					

Module of Family Planning Study (M2)					
Module code GEOGUM6066	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to analyze human geography elements by combining, processing, and interpreting society- and environment-sensitive population information data				
4	Subject aims Students are able to understand, apply, and analyze family planning history in demography, family planning role in childbirth, effectiveness of family planning methods, the family planning participation rate achieved, and family planning program failures in population development, with student scientific work outputs based on field data in the form of softfile and hardfile reports which are also to be delivered through presentation.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynronus and Synchronus)				
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination				
7	This module is used in the following degree programmes as well Only for bachelor student level				
8	Responsibility for module				
9	References BKKBN,2001. Gerakan Keluarga Berencana Mandiri, Jakarta: BKKBN Pusat Budiarto dan Rozy Munir, 2001. Dasar-Dasar Demografi. Jakarta LDFEUI Moeliono, Laurike, 2014. Materi Bantu Penyuluhan Kependudukan dan Pembangunan Keluarga. Jakarta: Direktorat Kerjasama Pendidikan Kependudukan BKKB Pusat Suyono,Haryono,2003. Sejarah dan Program KB Di Indonesia, Jakarta: BKKBN Pusat Munir, Rozidan Budiarto. 1986. Teori-Teori Kependudukan. Jakarta: PT BinaAksara. Shyock, H.S., and Siegel 1971. The Methods and Materials of Demography. Washington DC: U.S.Bureau of the Census				

Module of Tourism Development Planning (M3)					
Module code GEOGUM6070	Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00 hours	Independent study 88.00 hours	Class size 40 students	
2	Prerequisites for participation: N/A				
3	Learning outcomes Be able to apply sustainable development concepts through discovered solutions to a problem with geographic analysis methods and regional development planning techniques				
4	Subject aims Understand the basic concepts of tourism geography and components of tourism, study tourist destination area, tourist object evolutionary process, development process, and development requirements and stages, study tourism resources survey and evaluation activities, design tourist object development planning, design tourism development grand planning, design infrastructure development planning, and design ecotourism development using spatial information technologies.				

5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination
7	This module is used in the following degree programmes as well Only for bachelor student level
8	Responsibility for module Nailul Insani, S.Pd., M.Sc
9	References Bambang Sunaryo.2002. Kebijakan Pembangunan Destinasi Pariwisata. Yogyakarta: Gava Media. Gde Pitana dan Ketut Surya Diarta. 2009. Pengantar Ilmu Pariwisata. Yogyakarta: Penerbit Andi. Gee, Chuck Y et.al. 1984. The Travel Industry. The AVI Publishing Company. Connecticut. Iwan Nugroho. 2009. Ekowisata dan Pembangunan Berkelanjutan. Yogyakarta: Pustaka Pelajar. Janianton Damanik dan Helmut F Weber. 2006. Perencanaan Ekowisata. Yogyakarta: Penerbit Andi. Johan Afendi Ibrahim dan Mohamad Zaki Ahmad. 2008. Perancangan dan Pembangunan Pelancongan. Kedah : Penerbit Universiti Utara Malaysia. Kusudianto H.1996. Perencanaan Pengembangan Destinasi Pariwisata. Jakarta:UI Press Nursid Sumaatmaja. 1981. Studi Geografi, Suatu Pendekatan dan Analisa Keruangan. Bandung: Alumni. Pearce, douglas 1987.Tourism Today, A Geographical Analysis.sons.Inc. New York

Module of Tourism Marketing (M3)						
Module code GEOGUM6071		Student workload 123.00 hours	Credits (ECTS) 4.92	Semester 1. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00 hours	Independent study 88.00 hours		Class size 40 students
2	Prerequisites for participation: N/A					
3	Learning outcomes Be able to analyze and design natural resources utilization models optimally and to make decisions correctly according to the context					
4	Subject aims Be able to understand tourism marketing concepts through the introduction of tourism marketing concepts, tourism product and service functions, positions, and characteristics, demand, supply, and price concepts, tourism marketing, tourism marketing mix, and target market segmentation, targeting, and positioning.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)					
6	Assessment methods Scores of assignments, activeness, projects, mid-term examination, and final examination					
7	This module is used in the following degree programmes as well Only for bachelor student level					
8	Responsibility for module Nailul Insani, S.Pd., M.Sc					
9	References Babu, S Sutheeshna, Sitikantha Mishra dan Bivraj Bhusan Parida. Tourism Development Revisited: Concepts, Issues and Paradigms. New Delhi: SAGE Publications Ltd Benckendorff, Pierre dan Gianna Moscardo dan Donna Pendergast. 2010. Tourism and Generation Y. UK: CABI International					

	<p>Budiasa, I Gusti Ngurah P U Tu dan Putu Diah Sastri Pitanatri. 2015. Dasar-Dasar Pemasaran. Nusa Dua: Percetakan Sekolah Tinggi Pariwisata Nusa Dua Bali</p> <p>Graves, Phillip. 2010. Consumer.ology. Jakarta: PT Elex Media Komputindo</p> <p>Hitchcock, Michael, Victor T. King dan Michael Parnwell. Tourism in Southeast Asia: Challenges and New Directions. Denmark: Nordic Institute of Asian Studies</p> <p>Hudson, Simon. 2008. Tourism and Hospitality Marketing: A Global Perspective. London: SAGE Publications Ltd</p> <p>Kartajaya, Hermawan dan Iwan Setiawan. 2014. WOW Marketing. Jakarta: PT Gramedia Pustaka Utama</p> <p>Kotler, Phillip dan Gary Armstrong. 2006. Prinsip-Prinsip Pemasaran Edisi 12 Jilid 1. Jakarta: Penerbit Erlangga</p> <p>Kotler, Phillip dan Kevin Lane Keller. 2009. Manajemen Pemasaran Edisi 13 Jilid 1. Jakarta: Penerbit Erlangga</p> <p>Kim, W Chan dan Renee Mauborgne. 2015. Blue Ocean Strategy. Jakarta: PT Serambi Ilmu Semesta</p> <p>Ryan, Damian dan Calvin Jones. 2009. Understanding DIGITAL Marketing: Marketing strategies for engaging the digital generation. UK: Kogan Page</p> <p>Tjiptono, Fandy dan Gregorius Chandra. 2012. Pemasaran Strategik. Yogyakarta: CV Andi Offset</p> <p>2014. Handbook on E-marketing for Tourism Destinations: Fully Revised and Extended Version 3.0. Madrid: World Tourism Organization</p>
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Module of Ecotourism					
Module code GEOGUM6073	Student workload 123.00	Credits (ECTS) 4.92	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00	Independent study 88.00	Class size 40	
2	Prerequisites for participation: N/A.				
3	Learning outcomes Be able to understand geography as science and study, object, approach, and principle; design and apply innovative geographic research to solve physical, demographic, social, economic, and tourism problems; skilfully communicate work orally or in writing; and appreciate research work as a source of research inspiration and idea development. Be able to master sustainable development concepts and find solutions to problems using geographic analysis methods and regional development planning techniques correctly according to the context.				
4	Subject aims Study the development of ecotourism as a tourist attraction from time to time through regional development approaches, concepts, understanding, and paradigms. Ecotourism planning from theory to application serves as a basis of ecotourism development and sustainable development.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc				
9	References William, Stephen. 2009. Tourism Geography A new Synthesis. Routledge: London & New York Hall, C.M, Page, S.J. 1999. The Geography of Tourism and Recreation: Environment, Place and Space. Routledge: London & New York Muta' Ali, Lutfi. 2013. Pengembangan Wilayah Perdesaan (Perspektif Keruangan)..BPFG: Yogyakarta Suhardjo, A.J. 2008. Geografi Perdesaan sebuah Antologi. Ideas Media: Yogyakarta Arjana, I Gusti. 2016. Geografi Pariwisata & Ekonomi Kreatif. Rajawali Press; Jakarta				

Module of Regional Development Planning					
Module code GEOGUM6076	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are able to design regional planning with regional analysis according to the development potentials and to use spatial data and analysis as the basis for sustainable regional development planning.				
4	Subject aims Conduct regional planning through regional development approaches, concepts, understanding, and paradigms. Planning becomes the basis for regional development strategies and becomes an important part of a regional development process.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Dr. Satti Wagistina, S.P., M.Si				
9	References Damanik, Janianton dkk. 2018. Membangun Pariwisata Dari Bawah. Yogyakarta: UGM Press Richards, Greg Munsters, Wil. 2010. Cultural Tourism Research Methods. Wallingford: CABI Publishing.				

Module of Industrial Geography					
Module code GEOGUM6077	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Explain industrial geography concepts, analyze the spread, policies, strategies, and impacts of industrial activities in a region, apply industrial location theories, and make written reports on industrial problems in a region from the geographic perspective.				
4	Subject aims Basic concepts of industrial geography through appropriate approaches. Apply geographic approaches to problem-solving in relation to the industry.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Dra. Yuswanti Ariani, M.Si.				
9	References Bale, J. 1984. The Location of Manufacturing Industry : An Introduction Approach Hongkong: Wing King Tong Co. Ltd.. Berry, B.J.L., E.C. Conkling, and D.M. Ray. 1997. The Global Economy in Transition .New York: Prentice Hall. Braunerhjelm, Pontus and Maryann Feldman. 2006. Cluster Genesis: Technology Based Industrial Development. Oxford, New York: Oxford University Press J.W.Harrington and Barney Warf. 2002. Industrial Location: Principles, Practice, and Policy. London and New York: Routledge Rahardjo, Dawam.M. 1986. Transformasi Pertanian, Industrialisasi dan Kesempatan Kerja. Jakarta: U.I Press. Sastrosoenarto, Hartarto. 2006. Industrialisasi serta Pembangunan Sektor Pertanian dan Jasa: Menuju Visi Indonesia 2030. Jakarta: Gramedia Pustaka Utama Smith, D.M., 1981. Industrial Location: An Economic Geographical Analysis. Toronto: John Wiley and Sons Trevor, J. Barnes and Meric S, Gertler. 1999. The Industrial Geography: Region, Regulation, and Institution. New York: The Routledge				

Module of Regional Potential Analysis					
Module code GEOGUM6079	Student workload 123.00	Credits (ECTS) 4.92	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 35.00	Independent study 88.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are able to conduct regional analysis in physical, economic, demographic, cultural, and spatial aspects, and to figure out the extent of development and potential of a region.				
4	Subject aims Regional development between countries of the world, regional analysis techniques, regional analytical power in various aspects, both formal and functional. Categorize and generalize regions based on the analysed aspects to generate recommendations for regional development.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Dr. Satti Wagistina, S.P., M.Si				
9	References Azis, I.J., 1990. Interregional Allocation Of resources In Indonesia: Is There Any systematic Planning?. Jakarta: Inter-University Centre, Economics, University of Indonesia (IUC-EC-UI). Azis, I.J. and Djojodipoero, M., 1994. Ilmu Ekonomi Regional dan Beberapa Aplikasinya di Indonesia. Lembaga Penerbit, Fakultas Ekonomi, Universitas Indonesia. Isard, W., Azis, I.J., Drennan, M.P., Miller, R.E., Saltzman, S. and Thorbecke, E., 2017. Methods of interregional and regional analysis. Routledge. Muta'Ali, L., 2015. Teknik Analisis Regional untuk Perencanaan Wilayah, Tata Ruang dan Lingkungan. Yogyakarta: Badan Penerbit Fakultas Geografi Universitas Gadjah Mada, 347. Surastopo, H., 1991. Metode analisa geografi. LP3ES. Wilson, A.G., 2014. Complex spatial systems: the modelling foundations of urban and regional analysis. Routledge				

Module of Human Resource Development						
Module code GEOGUM6081		Student workload 123.00	Credits (ECTS) 4.92	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 35.00		Independent study 88.00	Class size
2	Prerequisites for participation No required course					
3	Learning outcomes Students are able to study human resources as part of development and to calculate and interpret human development index data.					
4	Subject aims Basic concepts of development and role of population as subject and at the same time object of development. Conduct measurement and analysis of human development index.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)					
6	Assessment methods Scores of assignments and activeness					
7	This module is used in the following degree programmes as well Only for degree student level					
8	Responsibility for module Dr. I Komang Astina, M.S.					
9	Reference Kolar, John E. dan John D. Nystuen. 1974. Human Geography: Spatial Design in World Society. New York: McGraw-Hill Book Company Fellmann, J.D., Getis, A., & Getis, J., 2001. Human geography: landscapes of human activities. McGraw-Hill. New York					

Module of Applied ESL						
Module code GEOGUM6082		Student workload 123.00	Credits (ECTS) 4.92	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course		Contact hours 23.33		Independent study 88.00	Class size
2	Prerequisites for participation: N/A					
3	Learning outcomes Students are able to study, apply, and analyze the physical conditions of a region and to analyze land resources utilization effectively and efficiently by finding out about the characteristics and quality of the land, land evaluation concepts, and land utilization optimization. Students are also able to conduct land resources evaluation, land appropriateness survey and mapping techniques for agricultural and tourism sectors by combining, processing, presenting, and interpreting analysis data from geosphere information and regional survey using geospatial technologies, and then present them in the form or reports.					
4	Subject aims Land resources evaluation, land characteristics and quality, land evaluation concepts, land appropriateness evaluation model, land resources evaluation procedure for land utilization optimization, and land appropriateness survey and mapping techniques in the agricultural and tourism sectors. Students are able to conduct land appropriateness survey in the agricultural and horticultural sectors.					
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)					
6	Assessment methods Scores of assignments and activeness					
7	This module is used in the following degree programmes as well Only for degree student level					
8	Responsibility for module Dr. Didik Taryana, M.Si					
9	References Beek, K.J. 1978. Land Evaluation for Agricultural development. ILRI Wageningen, The Netherlands. Publication No 23. Djaenudin, D; M. Herdriman, H. Subagyo, A. Mulyani dan N. Suharta.2003. Kriteria Kesesuaian Lahan untuk Komoditas Pertanian.Versi 4: Januari 2003. Bogor: Pusat Penelitian Tanah dan Pengembangan Tanah dan Agroklimat. FAO. 1982. Land Evaluation for Development. Rome: FAO FAO.Guidelines: Land evaluation for irrigated agriculture - FAO Soils Bulletin 55 http://www.fao.org/docrep/X5648E/X5648E00.htm FAO.Guidelines: Land evaluation for RainfedAgriculture. FAO Soils bulletin 55. Aronoff, S (1989). Geographic Information Systems: A Management Perspective Ottawa: WDL Publications.2. Arsyad, Sitanala, 1989,Konservasi Tanah dan Air , IPB Press, Bogor.3.Bacic, I.L.Z., 2003 Demand – Driven Land Evaluation Ph.D.-Thesis,Wageningen University, Enschede. Burrough, P.A. (1987).Principles of Geographical Information Systems for Land Resources sessment . New York: Oxford University Press. Dent, David dan Young, Anthony (1981).Soil Survey and Land Evaluation . London:George Allen & Unwin.6.FAO 1976, A Framework for land evaluation, Food and Agriculture Organization of the UN ,Rome, Italy. Fletcher J.R., Gibb, R.,G., 1990,Pedoman Survei Sumberdaya Lahan untuk Perencanaan Konservasi Tanah di Indonesia Direktorat Jend.Reboisasi danRahabilitasi Lahan, Dep.Kehutanan . Jakarta.					

	<p>Hopkins, L.D. (1977). Methods for Generating Land Suitability Maps. Journal of American Institute of Planners . Pp. 386 – 400.</p> <p>Kirk, Roger E. (1984). Elementary Statistics . California: Brooks/Cole Publishing Company.</p> <p>McCloy, Keith R. (1995). Resource Management Information Systems: Process and Practice. London, UK: Taylor & Francis Ltd.</p> <p>Mitchell, Bruce (1991). Geography and Resource Analysis second edition. Essex, England: Longman Scientific and Technical.</p> <p>Sitorus, Santun, 1985, Evaluasi Sumberdaya Lahan, Trasi, Bandung</p>
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Module of Sustainable Tourism					
Module code GEOGUM6083	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are able to understand sustainable tourism development, hence able to optimize the tourism potentials existing in a region, through geographic approaches in order to align tourism development, taking into consideration natural resources utilization.				
4	Subject aims Tourism typology, tourism characteristics and components, stages of development planning in the field of tourism. Analyze tourism development results through field observation and contextual study to study the alignment in tourism development planning through sustainable natural resources use.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc.				
9	References Prasetyo, Anjar dan Zaenal Arifin, Mohammed. 2018. Pengelolaan Destinasi Wisata yang Berkelanjutan Dengan Sistem Indikator Pariwisata. Jakarta: Indocamp Butler, R. W. Carlsen, J. 2011. Ecotourism Series, Number 8 : Island Tourism : A Sustainable Perspective Wallingford: CABI Publishing Wardiyanto dan Baiquni, M. 2011. Perencanaan dan pengembangan Pariwisata. Bandung: Lubuk agung Indriyo Gitosudarmo. 2008. Manajemen Pariwisata. Yogyakarta: BPFE Sujali. 1989. Geografi Pariwisata dan Kepariwisata. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada. Zeppel, H. D. (2006). Indigenous Ecotourism: Sustainable Development and Management. London: Cabi.				

Module of Disaster Geospatial Technology					
Module code GEOGUM6086	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are able to conduct disaster event and risk analysis, which covers three elements, namely hazard, vulnerability, and capacity, with geospatial technology applications. In addition, students are also able to use geospatial applications such as Global Navigation Satellite System (GNSS), UAV, Big Data Analysis, and Web Mapping Technology for disaster purposes.				
4	Subject aims This course applies geospatial technologies such as remote sensing and GIS for disaster management. It involves a variety of updated analyses of disaster that uses technologies as its subject core. Analysis of the interconnection of hazard, vulnerability, and capacity is to be incorporated in a collaboration with geospatial technologies as a solution to the issue of disaster in Indonesia.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Listyo Yudha Irawan, S.Pd., M.Pd., M.Sc				
9	References Peter A. Burrough (1986), Principles of Geographical Information Systems for Land Resources Assessment, Oxford Science Publications. Paul A. Longley, Michael F. Goodchild, David J. Maguire and David W. Rhind (Eds.) (1999), Geographical Information Systems (Vol.I /II), John Wiley & Sons, Inc., USA. Stan Morain and Shirley Lopez Baros (Eds.) (1996), Raster Imagery in Geographical Information Systems, 1st Edition, ONWORD Press. Brian Tomaszewski (2014), Geographic Information Systems (GIS) for Disaster Management, CRC Press, USA. 5. Shailesh Nayak and Sisi Zlatanova (2010), Remote Sensing and GIS Technologies for Monitoring and Prediction of Disasters, 1st Edition, Springer. Journal Natural Hazard and Earth System Science (NHESS) Natural Hazard International Journal of Geographical Information Science, Taylor & Francis Photogrammetric Engineering and Remote Sensing, American Society for Photogrammetry and Remote Sensing ISPRS Journal of Photogrammetry and Remote Sensing, International Society for Photogrammetry and Remote Sensing Anjuran Sentinel Asia, https://sentinel.tksc.jaxa.jp International Disaster Charter, https://www.disasterscharter.org United Nations Initiative towards Earthquake Safe Cities, Risk Assessment Tool for Diagnosis of Urban Areas against Seismic Disasters, CD-ROM, http://www.unisdr.org				

Module of Regional Climate Assessment					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6087	83.00	3.33	6. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are able to study the spatiotemporal dynamics of weather/climate elements according to the empirical climate type of a region, be it tropical, sub-tropical, sub-polar, or polar, critically, creatively, and systematically, using geographic approaches which can explain the effect of climate to life and then report the results in the form of papers.				
4	Subject aims Study the spatiotemporal dynamics of weather elements based on open source data of countries in tropical, sub-tropical, sub-polar, and polar countries to gain knowledge of climatic phenomena in various regions as well as climatic data interpretation skills, which can be communicated in the form of regional climate maps.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Dr. Dwiyono Hari, M.Pd., M.Sc.				
9	References Utomo, Dwiyono Hari. 2016. Meteorologi Klimatologi. Magnum: Yogyakarta Ahrens, C. Donald. 2003, Meteorology Today, An Introduction To Weather, Climate, and The Environment, Seventh Edition, Thomson, Brooks/Cole, Australia. Ahrens, C. Donald. 2011. Essentials of Meteorology, An Invitation to the Atmosphere. Brooks Cole. USA. Arbogast, Alan F. 2007. Discovering Physical Geography, Third Edition. John Wiley & Sons. USA Barry, Roger G, and Chorley, Richard J. 2003. Atmosphere, Weather, and Climate. New York: Routledge. BMG, http://meteo.bmg.go.id/ Christopherson, Robert W. 2011. An Introduction to Physical Geography Geosystems. Eighth Edition. Prentice Hall Pearson. Gabler, Robert; Petersen, James F.; Trapasso, L. Michael; Sack, Dorothy. 2009. Physical Geography. Belmont, USA: Brooks/Cole, Cengage Learning. KYUMA, Kazutake. 1971. Climate of South and Southeast Asia according to Thornthwaite's Classification Scheme. Tonan Ajia Kenkyu (The Southeast Asian Studies) Vol. 9, No. 1 June, 1971 Landsberg, H.E. 1981. The Urban Climate. Academic Press, New York. Lillesand, T.M., Kiefer, R.W. 1993. Penginderaan Jauh dan Interpretasi Citra. Gadjah Mada University Press. Yogyakarta. Mather, J.R. 1974. Climatology, Fundamental and Applications, McGraw Hill Book Company, New York. Monin, A.S. 1986. An Introduction to the Theory of Climate. D. Reidel Publishing Company, Dordrecht. Neiburger, Morris. 1995. Memahami Atmosfer Kita. Bandung: Penerbit ITB Trewartha, G.T. 1954. An Introduction to Climate. McGraw-Hill Book Company, Inc., New York.				

	<p>Trewartha, G.T., Horn, Lyle H. 1995. Pengantar Iklim. Edisi Kelima. Gadjah Mada University Press: Yogyakarta</p> <p>Tjasyono, B. 1986. Iklim dan Lingkungan. Bandung: Cendekia Jaya Utama.</p>
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Module of Population Poverty Evaluation					
Module code	Student workload	Credits (ECTS)	Semester	Frequency	Duration
GEOGUM6090	83.33	3.33	6. Sem.	Each Semester	1 semester(s)
1	Types of courses Elective Course	Contact hours 23.00	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Understand the position of population welfare as part of demography and be able to apply and analyze some measures of demographic variables, population welfare variables, population welfare assessment, and population welfare analysis.				
4	Subject aims Population welfare as part of demography, some demographic measures, measures of population welfare variables, measures of population welfare assessment, and population welfare analysis in relation to population quality improvement.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Drs. Marhadi Slamet K, M.Si.				
9	References 1. Mantra Ida Bagus : Demografi Umum 2. Budijanto; Analisis Sosio Demografi 3. Budijanto , Analisis Demografi Teknik 4. Zelinsky Wilbur George : Prologue Population Geography 5. Syorck Siegel.: The Method of Material Demography 1. Barcly GW : Tecnique of Population Analysis 2. Pollard AH :Demograpy Analysis				

Module of Mortality Measurement and Analysis					
Module code GEOGUM6091	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are able to understand, apply, and analyze differences in mortality concepts, analyze mortality measures and mortality data sources, study and analyze morbidity, analyze infant and maternal mortality and variety of mortality based on society's social and economic conditions, and analyze life tables, with student scientific paper outputs in the form of softfile and hardfile reports, which are also to be presented.				
4	Subject aims Study antroposphere phenomena from the geographic perspective spatially, presented through project-based learning, to gain highly oriented knowledge which can be applied to solve problems critically and creatively on morbidity and mortality in the frame of population development. This should cover analysis of mortality measures, infant and maternal mortality, mortality variables, variety of mortality based on the social, economic, and cultural conditions of society, and life table.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchrone and Synchronous)				
6	Assessment methods Scores of assignment and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Ifan Deffinika, S.Si., M.Sc				
9	References Shyrock, Henry S, and Siegel. 1971. The Methods and Materials of Demography .Washington D.C: US Bureau of The Census Hatmadji, Sri Harjati. 1981. "Fertilitas" dalam Dasar-dasar Demografi. Jakarta: Lembaga Demografi Fakultas Ekonomi Universitas Indonesia. Pollard, A.H., Fathat Yusuf., and G.N. Pollard. 1994. Demographic Techniques Australia: Pergamon Press Mantra, I.B. 2012. Demografi Umum. Yogyakarta: Pustaka Pelajar				

Module of Tourism Impact Evaluation					
Module code GEOGUM6094	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Students are expected to be able to apply methods of geographic analysis as well as analysis of environmental impacts on tourist destinations through in-depth studies using science and technology to solve tourism problems.				
4	Subject aims This course is to provide an understanding on the critical impact of a planned tourism enterprise or activity on the environment, which is highly important for decision-making process. This course covers the background of environmental impact assessment, development, tourism, and scoping policy, the determination of significant impacts, data collection, environmental impact analysis methods, and the methods of identification, prediction, and evaluation of the impacts on the tourism activities in a destination.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc				
9	Reference Brinhante et. al, 2002. Environmental Impact Assesment Training. Rotterdam: Ellias Modern Publishing. Budirahardjo, E., 1999. Metoda AMDAL. Jakarta: Badan Penelitian dan Pengembangan Departemen Dalam Negeri. Fandeli, C. 1995. Analisis Mengenai Dampak Lingkungan. Yogyakarta: Fak Kehutanan UGM dan PT Perhutani Persero. Fandeli, C. Mukhlison (ed). 2000. Pengusahaan Ekowisata. Yogyakarta: Fakultas Kehutanan UGM. Fandeli, C. 2002. Perencanaan Kepariwisata Alam. Yogyakarta: Fak .Kehutanan UGM dan PT Perhutani Persero. Soemarwoto, O., 2001.				

Module of Cultural Tourism					
Module code GEOGUM6095	Student workload 83.33	Credits (ECTS) 3.33	Semester 6. Sem.	Frequency Each Semester	Duration 1 semester(s)
1	Types of courses Elective Course	Contact hours 23.33	Independent study 60.00	Class size 40	
2	Prerequisites for participation: N/A				
3	Learning outcomes Analyze, study, and solve problems arising in cultural tourism development spatiotemporally and apply cultural tourism model design based on virtuous, wise social values for social and cultural problem-solving in daily life concretely, collaboratively, and communicatively; Actualize practical and constructive ideas for the improvement of the social environment.				
4	Subject aims Problems in cultural tourism spatiotemporally and apply cultural tourism model design based on virtuous, wise social values for social and cultural problem-solving in daily life concretely, collaboratively, and communicatively.				
5	Teaching methods Project work, case studies, group work, lectures, discussions (Asynchronous and Synchronous)				
6	Assessment methods Scores of assignments and activeness				
7	This module is used in the following degree programmes as well Only for degree student level				
8	Responsibility for module Nailul Insani, S.Pd., M.Sc				
9	References Richards, G. (2007). Cultural Tourism: Global and Local Perspectives. NY: Hayworth Reisinger, Y., & Turner, L. (2003). Cross-Cultural Behavior in Tourism: Concepts and Analysis. Oxford, U.K.: Butterworth Heinemann. Sigala, M., & Leslie, D. (2005). International Cultural Tourism Management: Implications and Cases. Oxford, U.K.: Butterworth Heinemann.				