MODULE HANDBOOK

BASIC GEOGRAPHIC INFORMATION SYSTEM							
Module/Course Title		Student Workload	Credits	Semester	Frequency	Duration	
8720202219		2 CU X 16 X 170'=	2 CU / 3.18 ECTS	2 nd	ONCE YEAR	1 SEMESTER	
		90,6618					
1	Types of LECTURE PRACTIC	ES	Contact hours (2CU X 1,59 ECTS) X{(50:170')X 28,51 Workhours= 26,64	Independent Study (2CU X 1,59 ECTS) X{(60:170')X 28,51 Workhours= 31,96	Structured Study (2CU X 1,59 ECTS) X{(60:170')X 28,51 Workhours= 31,96	Class size MAX 120 STUDENT	
2	Prerequisites for participation (if applicable)						
3	PLO-2 Able to analyze regional characteristics and regionalization (regionalization) in the context of resources and disasters based on the principles and approaches of geography to support sustainable development. PLO-4 Able to apply logical, critical, systematic, and innovative thinking in the fields of geography and geography education PLO-6 Able to make appropriate decisions in the context of solving problems in the field geography and geography education, based on the results of the analysis of information and data PLO-8 Able to formulate, process, analyze data, and present geosphere information both physical and human aspects by using geospatial technology to geography learn and research PLO-11					in the field of ysis of	
	Able to demonstrate a responsible attitude towards work in the field of expertise independently Course Learning Outcome (CLO)						
	CLO-2	carriing Out	oome (OLO)				

	Able to analyze regional characteristics and regionalization (regionalization) in the context of digital resources and disasters based on the principles and approaches of geography to support sustainable development.				
	CLO-4 Able to apply logical, critical, systematic, and innovative thinking Geographic Information System in the fields of geography and geography education				
	CLO-6 Able to make appropriate decisions in the context of solving problems in the field of geography and geography education, based on the results of the analysis of Geographic Information System and data				
	CLO-8 Able to formulate, process, analyze data, and present geosphere information digital both physical and human aspects by using geospatial technology to geography learning and research				
	CLO-11 Demonstrate a responsible attitude towards work in the field of in calculations and concepts in the study of Geographic Information System independently				
4	Learning materials 1. GIS as a database management system (DBMS) 2. Subsystem in GIS 3. Spatial data in GIS 4. Repositioning and digitizing maps 5. Editing and Labeling 6. Layout map				
5	Teaching methods Project Base Learning				
6	Assessment methods Portofolio				
7	This module/course is used in the following study programme/s as well				
8	Responsibility for module/course COMPULSORY/ELECTIVE*/				
9	 Budiyanto, Eko, 2011, Pengenalan dan Bekerja dengan Arcview, Pustaka Pelajar, Yogjakarta Bolstad, Paul. 2016. GIS Fundamentals: A First Text on Geographic Information Systems. Elder Press White Bear lake. Minnesota Chris Brunsdon and Lex Comber, 2014, An Introduction to R for Spatial Analysis and Mapping, SAGE Publications Ltd ESRI, 2012, ArcGIS 9.2 Manual, ESRI Publiser, New York John C. Rodgers, et all, 2012, Geospatial Online Instruction Model, Review of International Geographycal Education Online Vol. 2 Nomor 1 Spring 2012 Lilywati, H dan Budiman, 2007, Data Spasial, Pilihan Cerdas Bangsa Yang Bijak, PT Sarana Komunikasi Utama, Bogor. National Research Council, 2006, Learning to The Think Spatially: GIS as a Support System in The K-12 Curriculum, The National Academies Press, Washington. Zain, Ita Mardiani dan Wiwik Sri Utami. 2020. Sistem Informasi Gografis. Unesa University Press 				