MODULE HANDBOOK

Geocomputing and GIS Customization

Dr. Eng. Masita Dwi

Undergraduate Study Program for Geography
Faculty of Mathematics and Natural Sciences
Universitas Indonesia

Module designation	Geocomputing and GIS Customization
Semester(s) in which the module is taught	Sixth (6th) Semester
Person responsible for the module	Dr. Eng. Masita Dwi
Lecturer	1. Dr. Eng. Masita Dwi 2. Mandini Manessa, M.Eng. 3. Satria Indratmoko, M.Sc. 4.
Language	Bahasa Indonesia
Relation to curriculum	Elective
Teaching methods	Student-centered Learning and combination with Cooperative Learning
Workload (incl. contact hours, self-study hours)	1. Lectures: 100 minutes per week per semester 2. Assignment: 120 minutes per week per semester 3. Independent study: 120 minutes per week per semester 4. Minutes x weeks x semester: 340 x 14 x 1 = 4760 minutes per semester 5. Midterm Examination: 100 minutes per semester 6. Final Examination: 100 minutes per semester 7. Total workload per semester: 4950 minutes / 82 hours 40 minutes
Credit points	2 (Two)
Required and recommended pre-requisites for joining the module	1. Geographic Information System 2. Remote Sensing
Module objectives/intended learning outcomes	After completing this course, sixth semester students (6) were able to formulate and make computing and customization with geographic information systems
Content	1. The basic concept of program design in GIS 2. Concept of computing and customization in GIS 3. Procedure in computing and customization in GIS 4. Computing design and customization in GIS for certain case studies 5. Application of GIS Application Program Making for Computing and Customization in Certain Case Studies
Examination forms	-
Study and examination requirements	1. Individual Score (50%) 2. Quiz (5%) 3. Final Assignment (45%)
Reading list	Suyanto, K. N. R., & Mandala, S. (2019). Deep Learning Modernisasi Machine Learning Untuk Big Data. Informatika. Purnama. B. (2019). Pengantar Machine Learning. Infromatika Lawhead, J. (2019). Learning Geospatial Analysis with Python: Understand GIS fundamentals and perform remote sensing data analysis using Python 3.7. Packt Publishing Ltd. Yahya Heryadi dan Edy Irwansyah (2018) Deep Leraning dan Aplikasinya di Bidang Geospasial