MODULE HANDBOOK

Natural Disaster Risk Analysis

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

Module designation	Natural Disaster Risk Analysis
Semester(s) in which the module is taught	Sixth (6th) Semester
Person responsible for the module	Dr. Tito Latif Indra, M.Si.
Lecturer	1. Dr. Tito Latif Indra, M.Si. 2. Dr. Taqyuddin, M.Hum. 3.
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. Principles and Perspective in Physical Geography
Module objectives/intended learning outcomes	After completing this course students are able to analyze the risk of natural disasters in the physical, social and economic context systematically and spatially, the impact of disaster, and regional spatial planning according to regional disaster conditions
Content	1. Concepts and scope of disaster risk 2. Natural disaster risk data inventorisation: social, economy, and demography 3. Natural disasters risk analysis: concept and application on a specific ecosystem 4. Natural disasters risk management and development planning
Examination forms	-
Study and examination requirements	1. Group & Presentation Score (20%) 2. Individual Score (20%) 3. Midterm Examination (30%) 4. Final Examination (30%)"

Reading list	Birkmann, J. 2006, Measuring Vulnerability to Natural Hazards : Towards Disaster Resilient Societies. Uniter Nations University Press Tokyo New York Paris Keller & DeVecchio. 2015. Natural Hazards Earth's processes as hazard, disaster, and catastrophes. Routledge Taylor and Francis Grup London and New York Van Westen. 2017. Environmental Hazards Methodologies for Risk Assessment and Management. ResearchGate. Rachmawati, D. Rahmawati, A. Susilo, 2018. Pengurangan Risiko Bencana berbasis Tata Ruang. UB Press Malang Izumi, T., Shaw, R., Ishiwatari, et.al. 2019. 30 innovations for Disaster Risk Reduction. United Nations Special Representative of the Secretary-General for Disaster Risk Reduction.