



UNIVERSITAS NEGERI PADANG

Faculty of Social Sciences Department of Geography

Jalan Prof Dr. Hamka Kampus UNP Air Tawar Padang 25171

Telp. (0751) 7055 671 Fax (0751) 7055 671

Email. geografi@fis.unp.ac.id Web. geografi.fis.unp.ac.id

DESCRIPTIONS	
▪ Module Name	HYDROGEOLOGY
▪ Module Level	Bachelor
▪ Code	GEO1.62.3011
▪ Subheading	-
▪ Classes	2017
▪ Semester	3 rd
▪ Module Coordinator	Drs,Helfia Edial, MT
▪ Lecturer	Team: Sari Nova,S.Pd.,M.Sc
▪ Language	Bahasa Indonesia
▪ Classification within the curriculum	Compulsory course
▪ Teaching format / class hours per week during the semester	100 minutes lectures, 120 minutes structured activities and 120 minutes self-study per week.
▪ Workload	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self-study per week for 16 weeks
▪ Credit points /ECTS	2 SKS (3,02 ECTS)
▪ Prerequisites course(s)	-
▪ Course outcome	After taking this course the students have ability to: CO1: Students are able to master the concept of hydrogeology and its supporting sciences CO2: Students are able to explain the factors that affect groundwater distribution CO3: Students are able to master the geological structure of groundwater and the phenomenon of



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	seawater intrusion CO4: Students are able to understand how to manage and preserve the existence and potential of groundwater															
▪ Content	This course covers the basic concepts of water, distribution, absorption of groundwater, geological conditions, phenomena and problems of groundwater as well as its scope and interaction with the environment.															
▪ Study / exam achievements	<table><tr><th>N o</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO1- CO4</td><td>a. Individual Assignment b. Group Assignment c. Quiz d. Mid-Term Examination e. Final Examination</td><td>Written Test</td><td>10% 10% 5% 30% 40%</td></tr><tr><td>2</td><td></td><td>Activities</td><td>observation</td><td>5 %</td></tr></table>	N o	CO	Assessment Object	Assessment Technique	Weight	1	CO1- CO4	a. Individual Assignment b. Group Assignment c. Quiz d. Mid-Term Examination e. Final Examination	Written Test	10% 10% 5% 30% 40%	2		Activities	observation	5 %
N o	CO	Assessment Object	Assessment Technique	Weight												
1	CO1- CO4	a. Individual Assignment b. Group Assignment c. Quiz d. Mid-Term Examination e. Final Examination	Written Test	10% 10% 5% 30% 40%												
2		Activities	observation	5 %												
▪ Forms of media	Power Point, Video, Image, Board, LCD Projector, Laptop/Computer															
▪ Literature	1. Alif Norr Anna 1993, “Kondisi Airtanah di daerah Perkotaan” (Problema antara kuantitas dan kualitas air) Forum Geografi Surakarta. Jurnal Fakultas Geografi Universitas Muhammadiyah No.12 th VII Juli 1993. 2. Bakaruddin, 1994.Geografi Sumberdaya Air dan Permasalahan, Padang FPIPS IKIP Padang Bayong Tjasyono, 1992, Klimatologi Terapan, Pionir Jaya,															



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	bandung. - Chay Asdak 2005, <i>Hidrologi dan Pengelolaan DAS</i>, UNPAD. - David Keit Todd, 1995, <i>Groundwater Hidrologi</i>, John Wiley and Son, Singapura - Ersin Seyhan 1990, <i>Dasar-dasar Hidrologi</i>. Yogyakarta, Gajah Mada University Press. - Helfia Ideal, 1998, <i>Hidrogeologi Dasar</i>, FPIPS-IKIP Padang. - Suyono Sosrodarsono dkk, 1994, <i>Hidrologi untuk Pengairan</i>, Paramita Pradnya, Jakarta - Sri Harto Br, 1993. <i>Analisis Hidrologi</i>, Jakarta, Gramedia Pustaka Utama. - Davis, S. N., & De Wiest, R. J. (1966). <i>Hydrogeology</i> (Vol. 463). New York: Wiley. - Holting, B., & Coldewey, W. G. (2019). <i>Hydrogeology</i> (pp. 33-37). Berlin: Springer.
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1	√							
CO2	√							
CO3	√							
CO4	√							