DESCRIPTION	
• **Module Name**	Soil Geography
• **Module Level**	Bachelor
• **Code**	GEO1.61.2302
• **Sub-heading**	--
• **Classes**	2017
• **Semester**	2th
• **Module Coordinator**	Prof. Dr. Dedi Hermon, MP
• **Lecturer**	Team: Ratna Wilis, S.Pd, MP
• **Language**	Bahasa Indonesia
• **Classification within the curriculum**	Compulsory course (mata kuliah wajib)
• **Teaching format / class hours per week during the semester**	150 minutes lectures, 180 minutes structured activities and 180 minutes self-study per week.
• **Workload**	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks
• **Credit points (SKS)**	**3 SKS (4,53 ECTS)**
• **Prerequisites course(s)**	-
• **Course outcome**	After taking this course the students have ability to: CO1 students are able to describe the concepts of soil geography and soil genesis (soil formation and development). CO2 students are able to analyze the morphology and physical, chemical, and biological properties of soil. CO3 students are able to apply the study of soil geography with land capability, suitability, and land management. CO4 students are able to be creative in making soil taxonomic maps and compiling soil practicum reports.
• **Content**	This course studies the position of soil studies in the

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<tr><td></td><td>approach of geography, as well as the processes of genesis, morphology, physics, chemistry, and soil biology. In this course, students are also equipped with land surveying techniques, analyzing land capabilities and soil suitability for land management in the context of geography.</td></tr>
<tr><td>• Study / exam achievements</td><td>
<table>
<tr><th>No</th><th>CO</th><th>Assesment 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>Writen 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>
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<tr><td>• Forms of media</td><td>Power Point, Video, Gambar, Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>• Literature</td><td>
1. Pitty, A. F. (2020). Geography and soil properties. Routledge.
2. Ahmad, F. 1980. Dasar-Dasar Ilmu Tanah. Ilmu Tanah UNAND. Padang.
3. Hermon, D et dkk. 2008. Metode dan Tekhnik Penelitian Geografi Tanah. UNP. Padang.
4. Bunting, B. T. (2020). The geography of soil. Routledge.
5. Pombubpa, N., Pietrasiak, N., De Ley, P., & Stajich, J. E. (2020). Insights into dryland biocrust microbiome: geography, soil depth
</td></tr>
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and crust type affect biocrust microbial communities and networks in Mojave Desert, USA. *FEMS microbiology ecology*, *96*(9), fiaa125.

6. Yang, W., Li, S., Wang, X., Liu, F., Li, X., & Zhu, X. (2021). Soil properties and geography shape arbuscular mycorrhizal fungal communities in black land of China. *Applied Soil Ecology*, *167*, 104109.
7. Rodrigo-Comino, J., Senciales, J. M., Cerdà, A., & Brevik, E. C. (2018). The multidisciplinary origin of soil geography: A review. *Earth-Science Reviews*, *177*, 114-123.
8. Li, M., Han, X., Du, S., & Li, L. J. (2019). Profile stock of soil organic carbon and distribution in croplands of Northeast China. *Catena*, *174*, 285-292.
9. Nyesheja, E. M., Chen, X., El-Tantawi, A. M., Karamage, F., Mupenzi, C., & Nsengiyumva, J. B. (2019). Soil erosion assessment using RUSLE model in the Congo Nile Ridge region of Rwanda. *Physical Geography*, *40*(4), 339-360.
10. Rossiter, D. G., Poggio, L., Beaudette, D., & Libohova, Z. (2021). How well does Predictive Soil Mapping represent soil geography? An investigation from the USA. *SOIL Discussions*, 1-35.
11. Bamutaze, Y., Mukwaya, P., Oyama, S., Nadhomi, D., & Nsemire, P. (2021). Intersecting RUSLE modelled and farmers perceived soil erosion risk in the conservation domain on mountain Elgon in Uganda. *Applied Geography*, *126*, 102366.
12. Miller, B. A., Brevik, E. C., Pereira, P., & Schaetzl, R. J. (2019). Progress in soil geography I: Reinvigoration. *Progress in*

	Physical Geography: Earth and Environment, *43*(6), 827-854.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1					V				
CO2					V				
CO3					V				
CO4					V				