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| Module Name | Soils Science |
| Code, if applicable | GEL 2501 |
| Semester(s) in which the module | Third (3 th) Semester |
| Person responsible for the module | M. Anggri Setiawan, Dr., M.Si. |
| Lecturer | M. Anggri Setiawan, Dr., M.Si. Guruh Samodra, Dr., M.Sc. |
| Language | Bahasa Indonesia |
| Relation to curriculum | Compulsory class |
| Type of teaching, | STAR (<i>Student Teacher Aesthetic Role-Sharing</i>) is an optimal combination between SCL (<i>Student Centered Learning</i>) and TCL (<i>Teacher Centered Learning</i>). Lecturer : 1400 minutes |
| Workload | Lecturer : 1400 minutes including homework and discussion = 14 meetings x 100 minutes each Mid Semester Examination: 100 minutes Final Semester Examination: 120 minutes Total workload = 1620 minutes |
| Credit points | 2 |
| Requirements according to the examination regulations | Must attend lecture for more than 70% |
| Recommended prerequisites | Basic Geomorphology |
| Module objectives/intended learning aoutcomes | 1. Students are able to explain : <ul style="list-style-type: none">  Soil as a component of physical environment  Soil forming factors  Physical soil properties  Chemical soil properties  Biological soil properties  Morphological characteristics of soils and soil classifications  Soil Management |
| Content | <ol style="list-style-type: none"> 1. Soil as a component of physical environment 2. Soil forming factors 3. Physical soil properties 4. Chemical soil properties 5. Biological soil properties 6. Morphological characteristics of soils and soil classifications 7. Soil Management |
| Study and examination requirements and forms of examination | Quiz (10%), Individual and Group Assessment (30%), mid-semester examination (30 %) dan final examination (30 %). Examination is formed in written test. |
| Media employed | <ul style="list-style-type: none"> - ELISA website - Internet - Computers - Interactive video - LCD projector |
| Reading list | Birkeland, P.W., 1999. Soils and Geomorphology. Third Edition, Oxford University Press. New York-Oxford Bul, S.W., R.J. Mc Cracken and F.D. Hole, 1993. Soil Genesis and Classification. Iowa State University Press |

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| | <p>Hardjowigeno, 1987. Ilmu Tanah. Melton Putra, Jakarta.</p> <p>Soil Survey Staff, 1993. Soil Survey Manual. USDA Handbook Nr. 18. U.S. Gov. Printing Office Washington, DC.</p> <p>Wiliding, L.P., N.E. Smeck and G.F. Hall, 1983. Pedogenesis and Soil Taxonomy, Concepts and Interactions. Elsevier, Amsterdam</p> <p>Brady, N.C., 1995. The nature and Properties of Soils. Mc Graw Book Company</p> <p>Isa Darma Wijaya. 1990. Klasifikasi Tanah. Gadjah mada Press. Yogyakarta.</p> <p>Sartohadi, J., Suratman, Jamulya, dan Dewi, N.I.S. Pengantar Geografi Tanah. Yogyakarta : Pustaka Pelajar</p> |
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