



USK
UNIVERSITAS
SYIAH KUALA

FACULTY OF AGRICULTURE
DEPARTMENT OF SOIL SCIENCE

UNDERGRADUATE PROGRAM

MODULE HANDBOOK

Module designation	Soil Taxonomy (SSOL6011)
Semester(s) in which the module is taught	7 th semester
Person responsible for the module	Dr. Ir. Teti Arabia, M.S.
Language	Indonesian, English
Relation to curriculum	Elective module for Soil Science Department
Teaching methods	Lecture, small group discussion, presentation
Workload (incl. contact hours, self-study hours)	<ul style="list-style-type: none">✓ 100 minutes lecture and discussion per week✓ 120 minutes structured tasks per week✓ 120 minutes learn to be independent per week
Credit points	2 SKS = 3.2 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<ul style="list-style-type: none">✓ Students are able to analyze and relate soil characteristics (epipedon, characteristic horizons, other characteristics, genetic horizons) and soil classification data.✓ Students are able to describe, characterize and classify soil types at the order - subgroup level (Alfisols, Andisols, Aridisols, Entisols, Gelisols, Histosols, Inceptisols, Mollisols, Oxisols, Spodosols, Ultisols, and Vertisols), also family and series level.
Content	This lecture describes: characteristics of soil types (upper characteristic horizon/epipedon, lower characteristic horizon, other soil characteristics, genetic horizon, data for soil classification); soil type classification (Alfisols, Andisols, Aridisols, Entisols, Gelisols, Histosols, Inceptisols, Mollisols, Oxisols, Spodosols, Ultisols, and Vertisols); also soil families and series.
Exams and assessment formats	Quiz, assignment, midterm exam, final exam
Study and examination requirements	<ul style="list-style-type: none">✓ Quiz: 10%✓ Assignment: 30%✓ Midterm exam: 30%✓ Final exam: 30%

Reading list	<ol style="list-style-type: none">1. Arabia, T. 2022. Taksonomi Tanah. Buku Ajar. Program Studi Ilmu Tanah, Fakultas Pertanian, USK, Darussalam, Banda Aceh.2. Arabia, T. 2022. Taksonomi Tanah. Handout. Program Studi Ilmu Tanah, Fakultas Pertanian, USK, Darussalam, Banda Aceh.3. Soil Survey Staff. 2022. Keys to Soil Taxonomy. 13th ed. USDA-NRCS. Washington, DC.4. Arabia, T. 2019. Geomorfologi dan Analisis Lansekap. Buku Ajar. Program Studi Ilmu Tanah. Fakultas Pertanian Universitas Syiah Kuala. Darussalam. Banda Aceh.5. Arabia, T, Manfarizah, Zainabun, dan H. Basri. 2018. Geografi dan Perkembangan Tanah Indonesia. Buku Ajar. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh.6. Arabia, T., A. Karim, Manfarizah. 2017. Klasifikasi dan Pengelolaan Tanah. Buku Ajar. Syiah Kuala University Press. Darussalam. Banda Aceh.7. Arabia, T, Zainabun, dan Sugianto. 2016. Mineralogi & Petrografi serta Geologi & Kristalografi. Buku Ajar. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh.8. Arabia, T, Syakur, Manfarizah. 2015. Dasar-dasar Ilmu Tanah. Buku Ajar. Program Studi Ilmu Tanah. Fakultas Pertanian Universitas Syiah Kuala. Darussalam. Banda Aceh.
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