



USK
UNIVERSITAS
SYIAH KUALA

FACULTY OF AGRICULTURE
DEPARTMENT OF SOIL SCIENCE

UNDERGRADUATE PROGRAM

MODULE HANDBOOK

Module designation	Soil Management (SSOL2040)
Semester(s) in which the module is taught	4 th Semester
Person responsible for the module	Dr. Ir. Teti Arabia, M.S.
Language	Indonesian, English
Relation to curriculum	Compulsory module for Soil Science Department
Teaching methods	Practice, lecture, 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	SSOL1002
Module objectives/intended learning outcomes	<ul style="list-style-type: none">✓ Students are able to describe, characterize and classify the management of dry land soils (types of agricultural land, Alfisols, Andisols, Aridisols, Entisols, Inceptisols, Mollisols, Oxisols, Spodosols, Ultisols, and Vertisols).✓ Students are able to describe, characterize and classify the management of wet land soils (types of agricultural land, Gelisols, Histosols, Gleysols, Fluvisols, Anthrosols).
Content	This lecture describes: types of agricultural land (dry land & wet land); management of dry land soils (Alfisols, Andisols, Aridisols, Entisols, Inceptisols, Mollisols, Oxisols, Spodosols, Ultisols, and Vertisols); and management of wetland soils (Gelisols, Histosols, Gleysols, Fluvisols, Anthrosols).
Exams and assessment formats	Paper assignment; Midterm exam; Final exam
Study and examination requirements	<ul style="list-style-type: none">✓ Participatory Activities: 34%✓ Project Result: 16%✓ Quiz: 10%✓ Midterm exam: 27.2%✓ Final exam: 12.8%

Reading list	<ol style="list-style-type: none"> 1. Arabia, T., Syakur, H. Basri, dan Khairullah. 2023. Pengelolaan Lahan Pertanian, Buku Ajar. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 2. Arabia, T., Syakur, H. Basri, dan Khairullah. 2023. Pengelolaan Lahan Pertanian, Handout. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 3. Arabia, T. 2022. Taksonomi Tanah. Buku Ajar. Program Studi Ilmu Tanah, Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 4. Soil Survey Staff. 2022. Keys to Soil Taxonomy. 13 th ed. USDANRCS. Washington, DC. 5. Arabia, T. 2021. Karakteristik dan Pengelolaan Lahan Rawa. Buku Ajar. Program Studi Ilmu Tanah, Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 6. Arabia, T. 2020. Pengelolaan Tanah Sawah. Buku Ajar. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 7. Arabia, T. 2019. Geomorfologi dan Analisis Lansekap. Buku Ajar. Program Studi Ilmu Tanah. Fakultas Pertanian Universitas Syiah Kuala. Darussalam. Banda Aceh. 8. Arabia, T, Manfarizah, Zainabun, dan H. Basri. 2018. Geografi dan Perkembangan Tanah Indonesia. Buku Ajar. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 9. Arabia, T., A. Karim, Manfarizah. 2017. Klasifikasi dan Pengelolaan Tanah. Buku Ajar. Syiah Kuala University Press. Darussalam. Banda Aceh. 10. Subardja, D. et al. 2016. Petunjuk Teknis Klasifikasi Tanah Nasional. Edisi ke-2. Balitbangtan. Kementan. Cimanggu Bogor. 11. Arabia, T, Zainabun, dan Sugianto. 2016. Mineralogi & Petrografi serta Geologi & Kristalografi. Buku Ajar. Fakultas Pertanian, Universitas Syiah Kuala, Darussalam, Banda Aceh. 12. Arabia, T, Syakur, Manfarizah. 2015. Dasar-dasar Ilmu Tanah. Buku Ajar. Program Studi Ilmu Tanah. Fakultas Pertanian Universitas Syiah Kuala. Darussalam. Banda Aceh. 13. World Refence Base for Soil Resources 2014. 2015. International Soil Classification System for Naming Soils and Creating Legends for Soil maps. FAO of the United Nations
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