



USK
UNIVERSITAS
SYIAH KUALA

FACULTY OF AGRICULTURE
DEPARTMENT OF SOIL SCIENCE

UNDERGRADUATE PROGRAM

MODULE HANDBOOK

Module designation	Practicum of Agrotechnopreneurship (FPEN3002)
Semester(s) in which the module is taught	6 th semester
Person responsible for the module	Faculty Team
Language	Indonesian, English
Relation to curriculum	Compulsory module for Soil Science Department
Teaching methods	Practice, lecture, presentation
Workload (incl. contact hours, self-study hours)	✓ 170 minutes of practice per week (field/laboratory 50 minutes; structured learning 60 minutes; 60 minutes self-study)
Credit points	1 SKS = 1.6 ECTS
Required and recommended prerequisites for joining the module	FPEN3001
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> ✓ Students are able to understand the fundamental concepts of agricultural entrepreneurship, including its scope, processes, business types, and ownership models. ✓ Students are able to identify business opportunities and challenges in agribusiness development, and analyze relevant market potentials and problems. ✓ Students are able to design and develop a strategic and competitive agribusiness proposal, including business planning, feasibility analysis, and effective presentation of business ideas.
Content	The Agrotechnopreneurship course provides a foundational understanding of the meaning, scope, and process of entrepreneurship in the agricultural sector. Students are introduced to various types of businesses and ownership models, and are equipped with the skills to design innovative agribusiness models. The course also emphasizes the development of strong strategic plans for successful entrepreneurship in agriculture.
Exams and assessment formats	Team based project, quiz, assignment, midterm exam, final exam
Study and examination requirements	<ul style="list-style-type: none"> ✓ Team based project: 50% ✓ Quiz: 6.3% ✓ Assignment: 6.3% ✓ Midterm exam: 18.8% ✓ Final exam: 18.8%

Reading list	<ol style="list-style-type: none">1. Sparks, D. L., Page, A. L., Helmke, P. A., & Loeppert, R. H. (Eds.). (2020). <i>Methods of soil analysis, part 3: Chemical methods</i>. John Wiley & Sons.2. Strawn, D. G., Bohn, H. L., & O'Connor, G. A. (2019). <i>Soil chemistry</i>. John Wiley & Sons.3. Sparks, D. L., Singh, B., & Siebecker, M. G. (2022). <i>Environmental soil chemistry</i>. Elsevier.4. Blears, W. F. (2016). <i>Soil and environmental chemistry</i>. Academic Press.5. Greenland, D. J. (2015). <i>The chemistry of soil processes</i> (pp. 728-pp).6. Jones, J. (2018). <i>Soil analysis handbook of reference methods</i>. CRC press.7. Rayment, G. E., & Lyons, D. J. (2011). <i>Soil chemical methods: Australasia (Vol. 3)</i>. CSIRO publishing.8. Faithfull, N. T. (2002). <i>Methods in agricultural chemical analysis: A practical handbook</i> (pp. xxii+-266).
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