

GRADUATE MODEL

7M08102- Soil science and agrochemistry

BE ABLE TO:

- Plan and organize scientific research;
- utilize knowledge of fundamental sciences to solve specific research, information retrieval, and methodological problems;
- conduct agrochemical soil surveys, collect soil and plant samples, and conduct agrochemical analysis of soils, plants, and fertilizers;
- utilize soil nutrient supply maps;
- apply knowledge of university psychology and pedagogy in practical activities;
- work with modern computing technology, office equipment, and communications equipment.
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KNOW AND UNDERSTAND:

- Fundamentals of fundamental sciences corresponding to a master's degree;
- Soil types, their genesis and classification principles, composition, and properties;
- Physiological principles of plant nutrition;
- Fundamentals of soil and plant diagnostics;
- Methods for determining crop fertilizer requirements;
- Ways to improve soil fertility, land appraisal technology and economic valuation, principles of soil and agrochemical surveys;
- Economic principles of measures to preserve and restore soil fertility, and the rational use of fertilizers.

BE COMPETENT IN MATTERS:

- experimental research methodology;
- innovative technical and technological production in all sectors of industry, including agriculture;
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- soil genesis and evolution, biology, chemistry, soil physics, plant nutrition physiology, agrochemistry and rational use of fertilizers, soil and plant diagnostics;
- conducting experimental research in the professional field.
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