

ORGANIZATION OF SEED MANAGEMENT

Department of breeding and seed production named after prof. M.D., Goncharov

Lecturer - S.I.Berdin

Semester 4

Educational level: Doctor of Philosophy

Number of credits 4.0

Form of control Credit

Lectures 44 hours.

Practical classes - 44 hours.

General description of the subject

The program "Organization of Seed Management" promotes the ability to critically analyze and evaluate modern scientific achievements, generate new ideas in solving research and practical problems in the field of seed production, including using the latest information and communication technologies.

Acquiring knowledge in the context of the organization of seed management, allows you to form a scientist in the field of seed crops.

Lecture topics:

1. Introduction to the course.
2. Formation of seed research work in the field of seed production in Ukraine.
3. Foreign experience in the formation of seed scientific thought.
4. General methods of research in seed production
5. Schemes of field experiments in seed production in the context of crops.
6. Biological and economic principles of improving the varietal structure and seed production of cereals
7. Biophysical methods of research in seed production
8. Using the latest information and communication technologies in seed production
9. Investigation of the effect of pre-sowing on the productivity of crops.
10. Research of the impact of seed harvesting schemes and methods on seed quality.
11. Research of the impact of post-harvest cultivation and storage on seed Quality.
12. Research concerning the improvement of methods of soil varietal control
13. Research in seed production of primary nurseries of self-pollinated cereals and legumes.
14. Research in seed production of primary nurseries of cross-pollinated cereals and buckwheat.
15. Research in seed production of primary nurseries of clones and clone units of potatoes.
16. Research in seed production of primary nurseries of potato meristem.
17. Research in seed production of primary seedlings of potatoes obtained from natural seeds.
18. Research in seed production of primary nurseries of corn hybrids.
19. Research in the seeds of primary nurseries of hybrids of sunflower and rapeseed.
20. Research in seed production of primary nurseries of hybrids of sugar and fodder beet.
21. Research in the seeds of primary flax seedlings and hemp.
22. Research in seed production of primary nurseries of forage grasses.

Topics seminar, practical, laboratory)

1. Discussion of the problems raised by the research in the field of seed production.
2. Peculiarities of the use of terminology in seed production.
3. Basic research questions in seed production abroad (presentation defence).
4. Development and protection of field experiments in seed production.

5. Optimization of varietal composition of a certain culture according to given parameters.
6. Distinctive biophysical method of research in seed production (presentation defence).
7. Methods and technologies of pre-sowing seed treatment.
8. Impact of schemes and methods of harvesting on the quality of seeds of a certain crop (presentation defence).
9. Development of a scheme of seed improvement of a certain crop (presentation defence).
10. Development of the scheme of planting and storage of seeds of a certain crop (presentation defence).
11. Formation of the scheme, methods of research in the seed of primary nurseries of a certain crop.
12. Formation of data concerning personal research in seed production
13. Processing the results of research in seed production
14. Preparation of a scientific publication on the results of research in the field of seed production