[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The program of "Biological protection of plants" consists of the sections containing initial concepts on the matter of ways of struggle against pests, diseases and weeds by using natural methods and determination of biological and ecological efficiency of them. “ Biological protection of plants ” is a one of the most important specialized-subject, and students study it in the third course. The course materials are prepared based on regulations of the Higher and Secondary Specialized Education of Uzbekistan and program that was recommended by professors of Tashkent State Agricultural University.

2. Course Goals and Objectives (Approximately 100 words)

The goals of the subject "Biological protection of plants" is to learn how to struggle naturally against the pests, diseases and harmful bacteria of plants and methods of reproduction of entomophages in the laboratory condition and use them in the production.
The objectives of subject “ Biological protection of plants ” is to teach the students about entomophags, gerbifags, acarifags, microbiological preparations and use of their vital products against harmful organisms and to achieve sufficient biological and economic efficiency in the field of agriculture.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

1. Alimukhamedov S.A., Hodjaev Sh.T. – Cotton Pests and struggle against them. “ Mehnat ” 1999.
2. Bey-Bienko G.Ya. – “ General entomology ” , Moscow-1980.
3. Hodjaev Sh.T., Holmurodov E.A. "Basics of Entomology, Agricultural Crop Protection and Agrotoxicology. Tashkent, "Fan", 2009
4. Boltaev B. Etc. – Reproduction and implementation of "Brakon" method that is based on producing ecologically clean products in the biological laboratory. Guidelines. Tashkent, «MATRIX PRINT» LLC, 2008.
5. Boltaev B. Etc. – Reproduction and implementation of "Oltinko ’ z" method that is based

4. Reference

Academic Journals
Journal of “ Agriculture and Crops ”
Journal of “ Agronomy and Crops Science ”
Journal of “ Annals of Agricultural Science ”
Journal of “ Crops and Pasture Science ”

Websites
www.edu.uz.
www.edu.ru
www.cer.uz
www.ziyo.net.uz

5. Course Requirements and Grades

ASSESSMENT RATIONALE
1. Input control.
The purpose of monitoring is to identify the input of residual knowledge and skills on subjects that are used at studying of the modular course.
2. The current control.
The purpose of monitoring is to determine the assimilation of reading material and qualified to use it in practice. Carried out by checking the preparedness of students to the practical part of the module. For admission to the work necessary to answer questions about the content of the work and the the execution order.
3. Intermediate control
This control is necessary to determine the students with the knowledge of lecture material. Controlling conducted by two test points carried after reading the two parts of the module

6. Course Calendar

Week	Main Content
1	L. Introduction. History of biological methods, interactions of organisms in bio
2	Lecture-2. Microorganisms causing diseases in insects.
3	Lecture-3. The fungal diseases of insects, their biological significance.
4	Lecture-4. Types of cotton pests.
5	Lecture-5. Entomophagus of cereal crops pests.
6	Lecture-6. Entomophagus of pests of vegetables, field crops and potato.
7	Lecture-7. Entomophagus and aphorisms of garden crops.
8	tion methods of Entomophagus in the laboratory conditions and using them i
9	-9. Types of food for entomophages that are reproduced in the laboratory co
10	Lecture-10. Reproduction and use of gabrobakon in the bio laboratory.
11	Lecture-11.Reproduction of “ Oltinkuz ” in the laboratory conditions.
12	Lecture-12. Reproduction of enarchy in the laboratory conditions. Conclusion
13	Evaluation and control. Revision
14	