[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

Arable Farming course examines cultivating crops on viable land and explores, through investigation and experimentation, soil regimes and management methods, weeds and weed management, fight off pests and diseases, soil tillage, sowing techniques, crop rotation and farming system in organic systems. This course is designed as the general professional course for all arable agricultural specialties and instruct to learn about rational use of land, improving soil fertility.
To understand and exploit these processes, it is necessary to apply a wide range of biological areas, including Soil science, Agricultural Melioration, Crop Selection, Agro-chemistry, Plant Physiology and Biochemistry, and environmental sciences related to the Agriculture. The course provides students with an opportunity to enhance their knowledge by attending seminars and field workshops.

2. Course Goals and Objectives (Approximately 100 words)

The aim of this course is to ensure that students can achieve high level of comprehension and competence that will serve as a lasting and practical basis for a career.

The objective of the course is to provide training in scientific and transferable skills through modular lecture courses, written work, seminars and supervisions on Rational land using, accomplishing combinational measures both agrotechnical and agrochemical to prevent weeds and pests.

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

1. S.A.Vorobev, A.N.Kashtanov, A.M.Likov, I.I.Makarov, "Arable Farming" M .: " Agropromizdat" 1991.

2. A.K.Ermatov "Irrigated Agriculture", "O`qituvchi" T.1983.

4. Reference

Academic Journals:

• Uzbekistan Agricultural Science Bulletin
• Agronomist Newsletter
• Agro Ilm Journal
• Agriculture of Uzbekistan Journal

Websites:

http://agriculture.uz/
http://www.icar.org.in

5. Course Requirements and Grades

For studying of a course students should know following base disciplines: biology, chemistry, environmental studies.

Grading system:
The final grade will be calculated using the following areas and weights:
Homework 15
Independent work 20
Mid-term Exams 35
Final Comprehensive Examination 30
Total 100 balls

6. Course Calendar

Week	Main Content
1	Introduction and brief history of Arable Farming
2	Soil structure, fertility and improvement methods.
3	Air and water regimes and a soil, their management methods
4	Soil temperature regime and management methods
5	Weeds, their loss and biological properties
6	Weeds groups, control measures to fight
7	Ploughing, Autumn and spring ploughing
8	Ploughing quality and increasing methods
9	Arable land and its types. Tillage minimising methods
10	Pre-sowing and post sowing cultivation, sowing methods
11	Crop rotation and its significance
12	Modern farming systems and its properties
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