***Methodic instructions for IWS and SIW on discipline Safety of GMOs and organic products***

**IWS1**

The examples of GM crops related to tolerance to abiotic stress.

2. The examples of GM crops related to resistance to biotic stress (bacteria, fungus, virous).

3. GM crops with improved quality of products.

4. GM bacteria with use for human health.

5. GM animals with improved traits.

**SIW 1.** Topic, type of task.

Molecular characterization of GM crops,

Main methods and techniques.

Safety assessment of GM crops studies, such as toxicological, allergenicity, nutritional, and horizontal transfer

**IWS2**

Methods of determination of vitamins A, C, E, plant pigments, indispensable unsaturated fatty acids (IUFA), alimentary cellulose, and pre- and probiotics

Methods of determination of C and E.

plant pigments, indispensable unsaturated fatty acids (IUFA),

Methods of determination of alimentary cellulose, and pre- and probiotics

The techniques used for determination of pre- and probiotics

**IWS 3.** Topic, type of task. Topic 1. Organic Agriculture.

Topic 2 Organic farming practices.

Topic3 Process of organic farming practices

Topic 4. Organic farming techniques.

Topic 5. Effects of regulation of organic plant production.

Topic 6. Organic pesticides.

Topic 7. Microbiological hazards.

Topic 8. Animal feeds and veterinary drugs.

Topic 9. Advantages and disadvantages of organic agriculture and products

**IWS 4. Topic, type of task***.*

Topic 1. A ban on synthetic pesticides

Topic 2. A ban on synthetic mineral fertilisers

Topic 3. A ban on growth promoters.

Topic 4. Contaminant by nitrate in organic foods

Topic 5. Contaminant by Synthetic agrochemicals

Topic 6. Contaminant by environmental pollutants