

Basic methods of Sanitary Bacteriology, Soil and Water Microbiology

1. Lecturer: Popova Yulia Viktorivna, assistant of the department of plant and microorganism physiology and biochemistry.
2. Status: optional for bachelors.
3. Course, semester: 4th academic year, 8th semester.
4. Number of credits – 4, general academic hours – 144, labs – 80; self-study – 64.
5. Preliminary requirements: basics of Biochemistry, Microbiology, Genetics, Biotechnology
6. Description of the course: special lab practice provides knowledge and skills of sanitary and clinical bacteriology, soil and water microbiology necessary for professional work in the field of microbiology. Within the practice students get acquainted with immunological methods, carry out diagnostics of clinically important microorganisms and determine their antibiotic sensitivity by different methods, also they carry out sanitary control of food, air, soil and water. Also, students get to know methods of an election of microorganisms, fungi, actinobacteria and algae from different sources and methods of their identification.
Parts: Methods of Sanitary and Clinical Bacteriology, Methods of Soil and Water Microbiology.
7. Course organization, forms of control: writing tests, oral tests, writing final test.
8. Educational and methodological support: program, work plan, educational and scientific literature, multimedia presentations, microorganisms from the collection of the Plant and Microorganism's Physiology and Biochemistry department.
9. Language of teaching: Ukrainian.

References:

1. *Антипчук А.Ф., Кіреєва І.Ю.* Водна мікробіологія. – К.: Кондор, 2005. – 254 с.
2. *Лабинская А.С.* Микробиология с техникой микробиологических исследований. – М.: Медицина. – 1978. – 394 с.
3. *Методы почвенной микробиологии и биохимии / Под ред. Д.Г. Звягинцева.* - 2-е изд. – М.: Изд-тво МГУ, 1991 . – 303 с.
4. *Методические рекомендации к лабораторному практикуму по курсам „Санитарная микробиология” и „Санитарно-микробиологический контроль на производстве”.* – Улан-Удэ: Из-во ВСГТУ, 2006. – 90 с.
5. *Микробиология. Руководство к лабораторным занятиям: Уч. пос. для вузов / Кол. авторов Дикий И.Л., Сидорчук И.И., Холупяк И.Ю., Шевелева Н.Е.* – К.: Професіонал, 2004 . – 594 с.