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It is brought to your kind notice that information which is below could be changed according to unforeseen circumstances.

SPRING SEMESTER

COURSE TITLE	ECTS CREDITS	SUMMARY
Study programme APPLIED CHEMICAL ANALYSIS		
Biotechnology	3	The aim of the subject is to acquaint students with key areas of biotechnology science, major biotechnology industries and products, recombinant technologies (cloning, PCR reaction), protein synthesis in eukaryotic and prokaryotic cells. During practical classes students watch the transformation of eukaryotic cells, recombinant protein synthesis in <i>E.coli</i> cell, analyse the results of synthesis, fractionation of proteins in denaturing conditions, polyacrilamide gel.
Practice in a company	20	Normative documents, research methodologies, technical characteristics of laboratory equipment, equipment used in practical work are analysed. Theoretical material is collected, systematized and analysed according to the possible methods of analyte detection and determination in the experimental part of the final work topic, the possibilities of using the methods are evaluated, chemical experiments are performed using different methods, the optimal analysis method is selected. Tools and materials for selected analysis are prepared. Chemical/biochemical analysis is planned and performed according to the chosen topic of the final work. The results of the analysis are presented and evaluated, the quality parameters of the chemical analysis are determined, the factors influencing the magnitude of the uncertainty of the analysis results are identified. Laboratory, fire and human and nature safety are described.
Study programme LANDSCAPE DESIGN		
Herbaceous Ornamental Plants II	3	Overview: selection of a range of flower beds in a naturalistic style, the principles of combination, ecology, and the creation and maintenance of a flower bed.
Environmental Engineering	8	During the course, students will be taught to apply phytotechnologies – the use of vegetation to remediate, contain, or prevent contaminants in soils, sediments, and groundwater, as well as to enhance environments by adding nutrients, porosity, and organic matter. Phytotechnology is also understood as a set of planning, engineering, and design tools, along with cultural practices, that support landscape architects, site designers, engineers, and environmental planners in working on current and future challenges at the site, urban, and regional scales.
Practical Training of Applied Dendrology	4	Introduction of the most common cultivated species and cultivars of gymnosperms and woody angiosperms grow and growing in Lithuania. Developing of ability to construct green areas using wooded ornamental plants. Developing of plant identification ability.
Applied Practice of Herbaceous Ornamental Plants	4	Students will learn to determine the decorative properties of plants and the peculiarities of their manifestation. Abilities to group the observed are developed ornamental herbaceous plants according to their application in greenery. Description of herbaceous ornamental plants (recognition) in outdoor collections. The growth conditions of herbaceous ornamental plants are analysed, ornamental plants are taught herbal plant propagation.
Practice of Maintenance Technologies for Greeneries	4	Students will learn about ornamental plants growing and maintenance, plant protection measures and performance is analyzed. How to plan, organize the process of maintenance technologies for greeneries according to labor and civil requirements is analyzed.
Practice of Computer Design	5	Students will learn to create and edit landscape visualizations using SketchUp and Lumion software, applying various materials, textures, and lighting effects. They will be able to produce realistic animations and video presentations, applying creative and innovative solutions in their visualizations. Students will also gain skills in clearly and persuasively presenting their work, preparing it in different formats according to client needs.
Study programme FOOD TECHNOLOGY		
Food Safety and Quality	4	EU and Lithuanian legislation, general, mandatory, veterinary, food safety, and quality requirements are analyzed. The self-control system and principles, food labeling, food storage and transportation requirements, and the product detention and withdrawal program are reviewed.
General Technological and Food Quality Practical Training	10	In the company where the practice is performed, students get acquainted with food industry activities, improve professional skills by working in production units, examine different stages of food production and technological parameters, familiarize with the equipment, raw materials, finished product quality, hygiene and sanitation requirements.
Special Nutrition and Functional Food	5	The course helps students understand how to apply the principles of special nutrition and functional food development methods in the food industry in order to produce safe, high-quality and health-promoting products for consumers. The course helps students acquire the skills necessary for the development and production of functional food products that meet the special nutritional needs of consumers and contribute to improving public health.

Environmental Protection and Sustainable Production	4	The aim of the module is to introduce students to the environmental factors and their impact on the key components of the environment, pollution sources and ways to reduce them. Students analyse the environmental, labour and civil protection legislation, safety issues at the enterprise, as well as work safety of technological processes. While studying the module students are introduced to the basics of law, legal regulation mechanism, they are taught to handle constitutional, administrative, civil, criminal and labour law issues, and apply laws and regulations in practice.
Study programme VETERINARY MEDICINE		
Animal Physiology	6	Physiological processes, mechanisms, course and significance of animal cells, tissues, organs, organ systems and organism are studied.
Microbiology	3	The morphology, physiology and prevalence of microorganisms in nature and infectious diseases caused by them are reviewed. Methods for diagnosing these diseases and preventive measures are shown.
Epidemiology	5	The morphology, physiology and distribution of microorganisms in nature are reviewed, the infectious diseases they cause are analyzed. Methods of diagnosing these diseases and preventive and anti-epidemiological measures in the presence of these diseases are demonstrated. Knowledge and skills necessary for the differentiation and identification of these diseases and the application of anti-epidemiological measures are developed.
Parasitology	4	The morphology, physiology and distribution of parasites in nature are reviewed, and invasive diseases caused by them are analyzed. Methods of diagnosing these diseases and preventive measures are demonstrated.
Pharmacology and drug administration	4	The groups of preparations used in veterinary medicine are reviewed, the principles of action of pharmaceuticals are analyzed and the methods of pharmaceuticals delivery to the animal are demonstrated.
Pet Nursing Professional Practice	10	The technique of performing small animal surgical and obstetric operations is analyzed. Animal fixation techniques are and drug delivery techniques are presented. Evaluation of diagnostic methods are analyzed, small animal species, varieties, their needs are reviewed.