Course Unit Descriptor

Study Programme: Veterinary medicine

Course Unit Title: Applied Informatics

Course Unit Code: ЗИВМ2И82

Name of Lecturer(s): Associate Professor Tihomir Zoranovic, Assistant Vanja Erceg

Type and Level of Studies: Integrated studies

Course Status (compulsory/elective): Elective

Semester (winter/summer): Summer

Language of instruction: Serbian

Mode of course unit delivery (face-to-face/distance learning): Face-to-face

Number of ECTS Allocated: 6

Prerequisites: None

Course Aims:

Acquisition of basic knowledge in the field of Informatics and information technologies, necessary for working in the veterinary profession.

Learning Outcomes:

IT skills for the professional career of a doctor of veterinary medicine.

Syllabus:

Theory

Data. Information. Digital computers. Structure of PC hardware. PC software (operating systems, application programs). Algorithms. Computer networks. Identification rules on computers. Ways to connect to the Internet. Security rules on the Internet. Internet services. The social network. Data protection. Attacks from the Internet. Organization of data. Basics of the database structure. Optimization. Functioning of decision support software (DSS).

Practice

Measuring the amount of information. PC Components. Peripherals. Analysis of the most popular operating systems (Windows, Linux, Android, MacOS). Basic operating system tools. Advanced work on user programs (Word, Excell, Power Point). Symbols of algorithms. Procedural thinking. Connect your computer to the network and to the Internet. Internet protocols, domains, http, html. Browsers and advanced Internet search. An analysis of the case of Internet attacks and identity theft. Data protection and communication. Structure of simple relational database models. Relationships. Optimization on examples from agriculture (optimal production, maximization of profit, minimization of transport costs, minimization of production costs, etc.).

Required Reading:

Срђевић Б., Информатика, уџбеник, Пољопривредни факултет, Нови Сад, 1996.
Зорановић Т., Примењена информатика, збирка задатака, Пољопривредни факултет, Нови Сад, 2016.
Internet sources (by updating the material on the Faculty website)

Weekly Contact Hours: 4	**Lectures:** 2	**Practical work:** 2

Teaching Methods:

Lectures and students group work

Knowledge Assessment (maximum of 100 points): 100

Pre-exam obligations	points	**Final exam**	points
Active class participation	3	written exam	
Practical work	3	oral exam	40
Preliminary exam(s)	2 x 27	…….	
Seminar(s)			

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam,

project presentation, seminars, etc.