Code of subject	MWE_SEM1 TECH INF ANG
Field of study	Veterinary medicine
Name of the training module including the Polish name	Information Technologies
	Technologie Informacyjne
Language of instruction	English
Module type	Mandatory
Level of studies	Long-cycle master's degree studies
Form of study	Full-time
Location in the programme (year)	1
Location in the programme (semester)	1
Number of ECTS credits with a division into contact/noncontact	2 (1.0/1.0)
Name and surname of the person in charge	Arkadiusz Miaskowski
Unit offering the subject	Department of Applied Mathematics and Computer Science
Aim of the module	Mastering the skill of using a word processor and a spreadsheet application, as well as an ability to create multimedia presentations. Acquiring basic information on the Python programming language and a preparation for further self-study. Improving the student's knowledge and skills in the field of information technology so that they could consciously participate in the development of the information society.
Learning outcomes – the total number of learning outcomes may not exceed (4-8) for the module. The description of the intended learning outcomes that a student should achieve after the completion of the module should be provided. The outcomes for all forms of classes used should be presented.	Knowledge:
	K1. Understanding the essence and the concepts of a word processor, spreadsheet, multimedia presentation and a programming language.
	K2. Knowledge of the principles of correct text creation and formatting in the word processor together with the serial correspondence tool.
	K3. Knowledge of the processing tools and data analysis on a spreadsheet
	K4. Knowledge of programming basics in the Python programming language
	Skills:
	S1. Ability to draw up a long text, depending on the imposed format, with a particular emphasis on the rules of scientific papers.
	S2. Ability to prepare a multimedia presentation related to the field of study.
	S3. Ability to use a spreadsheet for complex mathematical calculations, with particular emphasis on mathematical formulae, graphs and the use of tools for data analysis.
	S4. Ability to independently write a simple programme in the Python language.
	Social competences:
	C1. Ability to estimate the task difficulty and consciously choose the right tools for its implementation

	C2. Awareness of the technological progress and acknowledgement of the need for constant education in Information Technologies.
Preliminary and additional requirements	---
Contents of the training module – a compact description	The computer laboratory covers: text processing with a particular consideration of the principles of automated formatting of the so-called long document, the serial correspondence tool together with a database. The spreadsheet as a tool for problem analysis, with reference to the acquired knowledge of the basic mathematics and physics; creation of formulae and data analysis in the spreadsheet and the application of a spreadsheet as an advanced calculator and a device for data analysis. Multimedia presentation – principles of creation. Practical preparation of an oral performance supported by a multimedia presentation. Programming basics in the Python programming language. The computer laboratories covers a practical implementation of selected problems.
Recommended and obligatory reading list	1. A. Baldwin, Microsoft Office 365: The Complete Tutorial with Tips & Tricks for Beginners to Master the Microsoft Office 365 New Features and Functions (2021), ISBN-13 : 979-8517572806 2. J. Michaloudis, 101 Most Popular Excel Formulas (101 Excel Series) (2019), ISBN-13 : 978-170030091 3. D. Amos, Python Basics: A Practical Introduction to Python 3 (2021), Real Python, ISBN-13 : 978-1775093329
The intended forms/activities/ teaching methods	discussion, lecture, experiment, project completion

Methods of verification and documentation forms of the achieved learning outcomes	During the computer laboratory students are obliged to prepare so-called long document (article) using selected word processor with regard to the imposed format (written work). The subject of the articles should be discussed with the teacher. After that students have to prepare a multimedia presentation on the base of the prepared article (speech evaluation, discussion). Using the spreadsheet or Python programming language students have to solve and analyse selected problems. The students are free to select a word processor, calculation spreadsheet or the programming language in order to complete each laboratory task. For example, using LaTeX word processor or Python programming language in order to complete the assignment is preferred compering to MS Word or MS Excel. The final grade is calculated as the mean value on the base of 4 marks in scale from 2.0 to 5.0. Mark 3.0 (dostateczny) is received if student has got 61% preparing each assignments. The grading scale is in line with the Faculty Book of Education Quality
Balance of ECTS credits	Contact hours Laboratory classes 30 h – 1 ECTS Non-contact hours Reading recommended literature – 15h (0.5 ECTS) Preparation for the classes – 15h (0.5 ECTS)
Number of contact hours	Participation in classes – 30 h;
Relationship between subject learning outcomes and veterinary studies learning outcomes	K1- W-inne K2-W-inne K3-W-inne S1 - A.U20 +, A.U21+, C.U3+ S2 - A.U20 +, C.U3+ S3 - A.U20 ++ C1 – K8+ C2 – K9++
Impact of selected compounds to final grade	W1, W2, W3 – 30% U1, U2, U3, U4 – 65% K1 – 5% If student wants to get better grade the assignments should be completed using LaTeX or Python programming language with regard to the assignment.