Abstract of	the comp	oulsory	educational	component

Abstract of the compulsory educational component				
Academic discipline	Information systems and technologies.			
Tutor	Mykhailo IvanovychTrofymchuk , PhD . Econ . Sciences, associate professor Department of information systems and technologies			
Courses and semesters,when the discipline isplanning to study	1 course; 2 semester			
Faculties whosestudents are invited tostudy discipline	Biological-technological faculty			
List of competenciesand learning- relatedoutcomes thatdiscipline provides	According to the requirements of the educational and professional program "Technology of production and processing of livestock products", applicants must acquire the ability to obtain the following competences: ZK 3 (general competence). Ability to apply knowledge in practical situations. ZK 7. Ability to evaluate and ensure the quality of performed works. ZK 9. Ability to search, process and analyze information from various sources. FC 1. The ability to use professional knowledge in the field of production and processing of livestock products for effective business management. The result of studying in the discipline is the acquisition by students of the following knowledge and skills: 7.1. Be able to use MS softwareOffice for processing research results. 7.2. To be able to perform computer calculations related to the technological processes of processing livestock products using MSExcel . 7.2. To understand the conceptual-technological and organizational- methodical foundations of the development of information systems. 16.1. Be able to save data obtained during research in databases, and conduct database analysis. 16.2. Be able to evaluate and analyze indicators 17.1 Demonstrate the skills of searching, collecting, processing and analyzing information, calculating indicators to justify decisions using information technologies. 17.2 Know the problems in information protection and ways to solve them			
Description of the discipline				
Preconditionsnecessary for thestudy of discipline	compulsory educational component "Information systems and technologies" is based on the knowledge of such disciplines as "Informatics", "Foreign language", "Mathematics", which were studied in secondary school.			
Maximum number ofstudents who canstudy simultaneously	55 students			
Lesson plans	 Lectures Constituents parts computer and their interaction. Information. Units of information. Operating Systems. Work in the MS Windows environment. Working with discs. Computer networks. Internet. Architecture local networks Text editor MS Word. Creating presentations. Power Point . Electronic MS Excel tables . Functions. Lists. Diagrams. Programming in MS Office. Basics of VBA Basics of VBA programming. Programming algorithms branched structures . Programming algorithms of cyclic structure LanguageRand its usefor data processing. Bases data Using the ACCESS DBMS 			

	Practical classes		
	1. Components of a computer and their interaction. Information. Units of		
	information. Architecture of a personal computer. Peripheraldevices. Files and		
l	directories. MS Windows operating system. OS loading.		
	2. Work in the MS Windows environment. Working with discs.		
	Adjusting parameters. Computer networks. Architecture of local networks.		
	Internet. Information search.		
	3. MS WORD. General information about the text editor. Creating and		
	saving documents. Font, paragraph formatting. Using styles. Creating new		
l	styles. Work in the form of an electronic document. Generating document		
	content. Printing of documents.		
l	4. MS WORD. Inserting objects. Footers. Footnotes. Drawings, tables,		
l	diagrams, schemes, formulas.		
l	5. MS PowerPoint . Create and save presentations. Animations of slide		
	objects. Slide transition. Adjusting parameters.		
	6. MS Excel spreadsheets. General Information. Menu bar, toolbars.		
	Work book. Creating and saving tables. Formatting cells in Excel. Protection		
	of cells. letters and books. Arithmetic expressions, formulas.		
	7. Work in MS Excel. Working with functions. Links to cells. Using		
	functions.		
	8 Work in MS Excel. Logical functions. Choosing the type and type of		
	diagram Making a diagram Construction of graphs Table partitioning and		
	ninning areas.		
	9 Work in MS Excel Print the document Working with lists Sorting		
	filters Results		
	10 MS Office macros Use of macros for special research in professional		
	activities data processing Creating macrosinthe Visual editor Basic Variables		
	Types of variables Arithmetic operators. Comparison operators, Basic		
	elements of VBA Hierarchy of objects Methods properties events		
	Arithmetic operations input and output of information		
	11 Conditional operators. A simple form of the IF operator.		
	ThemultiblockformoftheIF operator		
	12 FOR loop Using loop operators to process data arrays.		
	13 LanguageRand its usefor data processing		
	14 Language R Functions		
	15 Databases General principles of database design		
	15. Databases. General principles of database design.		
	10. SUDD MS Access. Tables.		
	17. SUDD MIS Access. Requests Using MIS Access technologies to		
Tasahing language	Ultraining English		
I eaching language	Okraiman, English		

I