



AgriTech Solutions: Innovating VET for Sustainable Agriculture
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 2024-1-RS01-KA210-VET-000244168

MINUTES

From the implementation of an activity for the needs of the project

Review of existing qualifications

Overview of the prevalence of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of technology in agriculture in the qualification curricula.

Teacher Sonja Slavkovic, Efremcho Nikolov

Place Skopje

Qualification: **Agromanagement Technician**

Curriculum	Agrometeorology with climatology	
Year	I (first) year	
Module/modular unit	Representation	Description
Meteorological elements and phenomena	Precision farming	Teaching is being carried out instrument content for measuring various meteorological phenomena

Proposal for improving the curriculum in terms of the representation of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula of the qualification	
Module/modular unit	Proposal
Meteorological elements and phenomena	To provide practical examples of the use of instruments in agriculture



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Subject	Agrochemistry	
Year	II (second) year	
Module/modular unit	Representation	Description
Fertilizers	Use of technology in agriculture	It is represented as a result of learning a hydroponic system for growing certain types of plants
	Organic farming	The task is a result of learning the selection and use of organic fertilizers for conventional and organic agricultural production, depending on the type of the soil and the type of the plant

Proposal for improving the curriculum in terms of the representation of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula of the qualification

Module/modular unit	Proposal
Fertilizers	To also review aeroponics as a new technology of production. To develop more types of organic manures and their use in organic production.



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Subject	Plant protection	
Year	II (second) year	
Module/modular unit	Representation	Description
Protection of agricultural cultures	Sustainable agriculture practices	It is represented in one result of learning principles and measures for integrated plant protection

Proposal for improving the curriculum in terms of the representation of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula of the qualification	
Module/modular unit	Proposal
Protection of agricultural cultures	To provide practical programs and examples for integrated protection in agriculture

Subject	Agricultural machinery	
Year	II (second) year	
Module/modular unit All modular	Representation	Description
units Machines and implements for soil cultivation Machines for fertilizing, sowing, planting and transplanting	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources	All areas are underrepresented.





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Machines for protection plants and machinery and irrigation devices Machinery, devices and equipment for making hay, green fodder and silage Harvesting machines and performance, grain harvesters and harvesters corn Machines for extracting sugar beets, potatoes, cotton harvesting and rolling tobacco Harvesting machines and fruit grading in viticulture and fruit growing Machinery in livestock farming	Organic farming	
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Module/modular unit All modular units	Proposal
Machines and implements for soil cultivation Machines for fertilizing, sowing, planting and transplanting	All areas should be processed through all modular units, because agricultural mechanization is part of all production technologies in agriculture.





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Machines for protection plants and machinery and irrigation devices Machinery, devices and equipment for making hay, green fodder and silage Harvesting machines and performance, grain harvesters and harvesters corn Machines for extracting sugar beets, potatoes, cotton harvesting and harvesting and rolling tobacco Harvesting machines and fruit grading in viticulture and fruit growing Machinery in livestock farming	
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Subject	Technologies in plant production	
Year	III (third) year	
Module/modular unit Basics of plant	Representation	Description
production	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources Organic farming	Appropriate measures for processing and fertilizing agricultural land are provided. surfaces As a result of learning crop rotation, reproductive material, sowing, planting and



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		planting of agricultural crops. As a result of learning Measures have been given for the care of agricultural crops. The learning outcomes are given as addition, transport and storage of agricultural crops
Technologies in agricultural production	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources Organic farming	Technologies are represented in agricultural production: grain and tuber crops, industrial crops, fodder crops.
Technologies in horticultural and floricultural production	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources Organic farming	Technologies are represented in horticultural and floricultural production.
Technologies in fruit growing production	Use of technology in agriculture Precision farming Sustainable agriculture practices Renewable energy sources Organic farming	Measures are advocated for raising and breeding on a fruit orchard.
Technologies in viticulture production	Use of technology in agriculture Precision farming Sustainable agriculture practices	Measures are advocated for raising and cultivating a vineyard.





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	Renewable energy sources	
	Organic farming	

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Module/modular unit Basics of plant	Proposal
production	All 5 areas can be represented in this modular unit, with special emphasis on the application of each area.
Technologies in agricultural production	To provide practical programs for the application of agrotechnical and other measures in agricultural production.
Technologies in horticultural and floricultural production	To provide practical programs for the application of agrotechnical and other measures in horticultural and floricultural production.
Technologies in fruit growing production	To provide practical programs for the application of agrotechnical and other measures in fruit production.
Technologies in viticulture production	To provide practical programs for the application of agrotechnical and other measures in viticulture production.

Subject	Technologies in livestock production	
Year	IV (fourth)	
Module/modular unit	Representation	Description





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Methods of cultivation domestic animals and other zootechnical measures	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources Organic farming	The learning outcomes include the methods of animal husbandry.
Organic livestock production and livestock food	Organic farming Sustainable agriculture practices	As a result of learning basic principles are given and principles of organic livestock production. As a result of learning given is normalized nutrition when feeding different species and categories of animals.
Cattle breeding	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources Organic farming	The learning outcomes include the technologies in cattle breeding.
Shepherding and goat breeding	Use of technology in agriculture Precision farming Sustainable agriculture practices Renewable energy sources Organic farming	In learning outcomes the technologies are given in sheep and goat farming.
Pig farming	Use of technology in agriculture Precision farming Sustainable agriculture practices Renewable energy sources	In learning outcomes the technologies are given in pig farming.





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	Organic farming	
Poultry farming	Use of technology in agriculture Precision farming Sustainable agricultural practices Renewable energy sources Organic farming	The learning outcomes include the technologies in poultry farming.
Fishing	Use of technology in agriculture Precision farming Sustainable agriculture practices Renewable energy sources Organic farming	As a result of learning the methods of are given breeding in fisheries.
Beekeeping	Use of technology in agriculture Precision farming Sustainable agriculture practices Renewable energy sources Organic farming	In learning outcomes the technologies are given in beekeeping.

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Module/modular unit Methods of	Proposal
cultivation domestic animals and other zootechnical measures	More than/all 5 areas may be represented in this modular unit.



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Organic livestock production and livestock food	To provide practical experiences in applying the principles and measures for organic livestock farming production.
Cattle breeding	This modular unit may cover more/all 5 areas, with particular emphasis on the application of each area.
Shepherding and goat breeding	This modular unit may cover more/all 5 areas, with particular emphasis on the application of each area.
Cunicularity	This modular unit may cover more/all 5 areas, with particular emphasis on the application of each area.
Pig farming	This modular unit may cover more/all 5 areas, with particular emphasis on the application of each area.
Poultry farming	In this modular unit, all 5 areas can be represented more, with special emphasis on the application of each of the areas.
Fishing	This modular unit may cover more/all 5 areas, with particular emphasis on the application of each area.
Beekeeping	This modular unit may cover more/all 5 areas, with particular emphasis on the application of each area.

In Skopje

Teachers

Date 05/31/2025

Sonja Slavkovic, Efremcho Nikolov



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