



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

REPORT

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 Veterinary Medicine Technician

Short description

This qualification provides the student with knowledge, skills and competencies to:

- planning, preparing and organizing activities, independently or under the supervision and at the behest of a licensed DVM (Doctor of Veterinary Medicine)
- assisting in the examination, diagnosis and treatment of animals
- participation in laboratory testing and control of food of animal origin
- veterinary application
- medical preparations and means for DDD (disinfection, disinsection and deratization) under the supervision of a licensed DVM
- preparing and feeding domestic animals
- implementation of zootechnical, zoohygienic and preventive health measures
- animal protection
- keeping veterinary records, performing artificial insemination, marking animals and other technical matters related to animal health protection, in accordance with the legal regulations for combating infectious diseases in animals that threaten the entire country, as well as the health of animals and humans
- respecting quality standards, principles of veterinary ethics, protecting one's own health and the health of colleagues
- environmental protection and application of principles of good veterinary, working and good hygiene practice

The veterinary technician, after completing secondary education, will be able to: work as an assistant in the examination, diagnosis and treatment of



Funded by
the European Union





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

animals in veterinary medical institutions, to work in livestock facilities and other facilities for keeping and breeding animals, to implement zootechnical, zoohygienic measures, to take care of the care and welfare of animals, to work in industrial facilities for the production and processing of food of animal origin (slaughterhouses, meat and dairy industries) and in laboratories for testing and controlling the quality of food of animal origin, microbiological and parasitological laboratories. He may also perform certain tasks from a technical aspect in other institutions dealing with veterinary medical activities (institutes, faculties) and institutions that keep and breed animals (zoos, kennels, pet shops, etc.), as well as in reserves for

breeding of wild animals

Based on a review of the curricula of vocational subjects, it can be concluded that the technologies of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of modern technologies in agriculture are represented to a certain extent. This qualification has been prepared according to the conditions at the time of its preparation in 2019. At this time, most of the specific areas of interest of the project have not yet reached the current technological development.

Proposal for improving the existing qualification 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

Proposals for improving the existing qualification 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 are:

- To provide practical examples of the use of the instruments in agriculture
- To also review aeroponics as a new production technology
- To develop more types of organic fertilizers and their use in organic production
- To provide practical programs and examples for integrated protection in agriculture
- In this modular unit **General Animal Husbandry**, all 5 can be represented areas
- In this modular unit **Basic aspects of domestic animal nutrition** **animals** can represent all 5 areas, with special emphasis on the application of each area

-



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

-
- To provide practical programs for the use of new technology in production of flower species
- To provide practical programs for the application of agrotechnical and other measures in flower production
- In this modular unit Agroecology, all can be represented cross-curricular areas, especially the use of technology in agriculture, precision agriculture, and sustainable agricultural practices
- In this modular unit Agrotechnics, more/all 5 areas can be represented, with special emphasis on the application of each of the areas
- In this modular unit Production of grape planting material, all 5 areas can be represented, especially the use of technology in agriculture, precision agriculture and sustainable agricultural practices
- In this modular unit Agrobiological traits and agrotechnics of grapevines, all 5 areas can be represented, with special emphasis on the application of each of the areas.
- In this modular unit Conditions for growing and raising fruit trees orchards and fruit tree cultivation systems and crown formation can represent all 5 areas, especially the use of technology in agriculture, precision agriculture and sustainable agricultural practices
- In this modular unit, fruit growing, harvesting, storage, packaging and transportation of fruit can represent all 5 areas, with special emphasis on the application of each area
- In this modular unit Methods of raising domestic animals and other zootechnical measures, more than all 5 areas can be represented
- To provide practical experiences in applying the principles and measures for organic farming livestock production
- In this modular unit Horsemanship, more/all 5 areas may be represented, with special emphasis on the application of each of the areas
- In this modular unit Cattle Breeding, more/all 5 areas can be represented, with special emphasis on the application of each of the areas
- In this modular unit Sheep and goat farming can be represented more/all 5 areas, with special emphasis on the application of each area
- In this modular unit, Cunicularism can be represented more/all 5 areas, with special emphasis on the application of each area
- In this modular unit Pig Farming, more/all 5 areas can be represented, with special emphasis on the application of each of the areas





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

- In this modular unit Poultry Production, more/all 5 areas can be represented, with special emphasis on the application of each of the areas
- In this modular unit Fisheries, more/all 5 areas can be represented, with special emphasis on the application of each of the areas
- In this modular unit Beekeeping, more/all 5 areas may be represented, with special emphasis on the application of each of the areas

In Skopje

Teachers

Date 05/31/2025

Sonja Slavkovic, Efremcho Nikolov



Funded by
the European Union

