



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

Teacher training to improve teaching of environmental sustainability and technological progress

Trainer Sonja Slavkovic

Training venue: Mayberry Highway Hotel, Sveti Nikole

Date 25, 26 and 27 08.2025

Background

Within the framework of the AgriTech Solutions project: Innovative VET for Sustainable Agriculture with project number 2024-1-RS01-KA210-VET-000244168, funded by the Erasmus + program of the European Union, teacher training is being implemented for Improving Teaching for environmental sustainability and technological progress

The main objective of this project is to advance vocational education and training (VET) in sustainable agriculture through the introduction of project-based learning (PBL), focusing on sustainable and technologically advanced agricultural practices, inclusiveness and accessibility for all students. This project strives to combine theoretical knowledge with practical applications, thus equipping students with the necessary skills to address contemporary agricultural challenges.

Training objectives

The training aims to provide teachers with the knowledge and skills necessary to improve teaching about environmental sustainability and technological progress. After the training, teachers will work on disseminating the training and integrating teaching content on sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technology in vocational education.

The training aims to provide teachers with the knowledge and skills necessary to improve teaching about environmental sustainability and technological progress. After the training, teachers will work on disseminating the training and integrating teaching content on sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technology in vocational education.



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

Training implementation period

The training is organized in the period from 25-27 August 2025 (3 working days) at Mayberry Highway Hotel, Sveti Nikole. **First day 25.08.2025**

Introduction -

representation of sustainable development and agriculture in educational curricula

Sustainable development and agriculture:

- Sustainable agricultural practices
- Precision farming
- Organic farming

Second day 26.08.2025

- Renewable energy sources in agriculture Use of new technology
- in agriculture

Third day 27.08.2025

Application of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of technology in agriculture in curricula

Proposal for a curriculum for sustainable development and agriculture

Place of implementation of the training

The training took place at the Mayberry Highway Hotel, Sveti Nikole, as well as a field visit to agricultural farms that practice sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technology in agriculture in Ezgja and Bonnier.

Training participants

The training was attended by 8 teachers of vocational theoretical subjects and practical training, from the agricultural and veterinary professions from the schools DSU RSCO Kiro Burnaz Kumanovo, SUGS Braka Miladinovci Skopje, SOUUD Dimitar Vlahov Strumica and SOU Kocho Racin Sveti Nikole. The teachers teach students in different years of education.

Training planning

The planning process included: Designing the training by collecting information from the project research, literature search, reading professional materials, making presentations, preparing materials for participants. **Agenda:**

August 25, 2025 - first day

Session 1



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

Introduction – representation of sustainable development and agriculture in educational curricula

- In which subjects do you teach sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources, and the use of new technology?
- Presentation and discussion - Representation of sustainable development and agriculture in educational curricula.

Session 2 Sustainable development and agriculture

Presentation and discussion - Sustainable agricultural practices - How

sustainable agricultural practices could be applied in teaching Presentation and discussion - Precision agriculture - How precision agriculture could be applied in teaching

Presentation and discussion - Organic farming - How organic

farming could be applied in teaching **Agenda August 26, 2025 - second day**

Session 2 Sustainable development and agriculture

Presentation and discussion - Renewable energy sources in agriculture How renewable energy

- sources in agriculture could be applied in teaching

Presentation and discussion - Use of new technology in agriculture - How could the use of new technology in agriculture be applied in teaching – Sonja Slavkovic

Session 3 Field visit to agricultural farms. Two suitable companies were selected from Erdzelija BONIER, which implement sustainable agricultural practices, precision agriculture, renewable energy sources and the use of technology in agriculture, and Erdzelija Ezgija, which implement sustainable agricultural practices, precision agriculture, renewable energy sources and the use of technology in agriculture and organic farming.

Agenda August 27, 2025 - third day

Session 4 Application of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of technology in agriculture in curricula

Discussion

- Is sustainable development important for agriculture?
- What of the presented and practical application can be included in teaching?
- Where can the areas of... be included in teaching?

Presentation – Proposed curriculum for sustainable development and agriculture



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

Workshop - Application of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of technology in agriculture in curricula.

Presentation of individual work - insights and future activities

Implementation

The implementation covers the course of the training. During the training, all the activities according to the agenda, namely:

First Day - After the arrival and introduction of the participants, expectations were presented, as well as a presentation of the objectives and methods of the training. Then Session 1 Introduction began - representation of sustainable development and agriculture in the educational curricula, followed by a brainstorming discussion on the representation of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of new technology in individual subjects. This was followed by a presentation on - Representation of sustainable development and agriculture in the educational curricula. Session 2 Sustainable development and agriculture begins with a presentation on Sustainable agricultural practices, the discussion developed How sustainable agricultural practices could be applied in teaching. Presentation on precision agriculture and discussion on how precision agriculture could be applied in teaching, followed by a presentation on organic agriculture and discussion on how organic agriculture could be applied in teaching.

Second Day - Session 2 Sustainable Development and Agriculture began with a presentation on the topic of Renewable Energy Sources in Agriculture, followed by a discussion on how renewable energy sources in agriculture could be applied in teaching, followed by a presentation on the use of new technology in agriculture and a discussion on the applications of using new technology in agriculture in teaching.

Session 3 Field visit to agricultural farms - Field visit to two agricultural farms where sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technology in agriculture are practiced Ezgia and Bonnier with research on practical

application of their practice.

Third Day - Session 4 Application of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula. A discussion that starts a brainstorming session with answers to the questions: Is sustainable development important for agriculture?, What of the presented and practical application can be included in the curriculum?, Where in the curriculum can the areas be included.... Followed by a presentation of the proposed curriculum



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

program on sustainable development and agriculture. Activities of the participants through a workshop on the Application of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula, followed by a presentation of individual work

Reflection and conclusion

After the training, a discussion was held on the possibilities for applying and integrating curriculum content from sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of new technology in vocational education. The following conclusions emerged from the discussion:

- in the sector there is an opportunity to integrate teaching content in the field of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture.
- will be implemented as an initiative by the association as content programmed by the school in the fourth year with a weekly fund of 2 hours, i.e. 66 hours per year.

Attachment:

- Training agenda
- Photos from the training

In Sveti Nikole

Trainer

Date 27.08.2025

Sonja Slavkovic



Funded by
the European Union

