



AgriTech Solutions: Innovating VET for Sustainable Agriculture
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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: Sasha Raskovic

Training venue: Hotel Bavka, Leskovac

Date 22-24.08.2025.

Within the framework of the project "AgriTech Solutions": Innovative Vocational Education and Training 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 to improve teaching on environmental sustainability and technological progress.

The main objective of this project is to improve 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 aims to combine theoretical knowledge with practical application, thus equipping students with the necessary skills to address contemporary agricultural challenges.

Training objectives

The aim of the training is to provide teachers with the knowledge and skills needed to improve teaching on environmental sustainability and technological progress. After the training, teachers will work to expand the training and integrate curriculum content on sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technologies in agriculture into vocational education.

The theoretical training aimed to provide students with basic knowledge and practices from the above-mentioned thematic units, to introduce them to the development of practices and methods, as well as with the current perspectives for their practical application.

The practical training aimed to provide information in real conditions in the visited companies, directly and through direct contact with participants who apply these practices and methods, on the method of implementation, the benefits of applying sustainable agriculture methods, as well as how these experiences could be used in creating teaching models.



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Training implementation period

The training was organized from August 22 to 24, 2025 at the "Bavka" Hotel, Leskovac.

The training was held in accordance with the previously prepared agenda.

On the first working day of the training, 2 sessions were held, based on the proposed topics, covering all areas within sustainable agriculture, as follows:

Session 1 was an introduction to the issue of presenting the topic of sustainable development in agriculture in the curricula. With the support of a PowerPoint presentation, the topic of the session was presented, which included a discussion. The duration of this session was 90 minutes.

Session 2 focused on topics in the field of sustainable development in agriculture and was presented through 5 thematic units. On the first working day, 3 thematic units were presented to the training participants, namely:

1. Sustainable agricultural practices
2. Precision farming
3. Organic farming

Each training included a presentation of the material with the support of a PowerPoint presentation, practical examples, interaction with the audience and exchange of ideas, as well as discussion. The approximate time of each session was 90 minutes.

On the second working day, the remaining 2 thematic units within the session on sustainable development in agriculture were presented to the training participants, namely:

1. Renewable energy sources in agriculture and
2. Use of new, modern technologies in agriculture

The trainings were implemented with the presentation of the material using a PowerPoint presentation, examples from practice and with the active participation of all participants, exchange of ideas and discussion.

The second part of the second working day was used to visit companies in the immediate vicinity that apply the methods, principles and techniques of sustainable agriculture.

in practice, namely:

1. Radanska Ruža doo from Lebane
2. Green Star ZZ from Leskovac



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Radanska Ruža is a small company established as a mixed social enterprise operating in the field of establishing cooperatives for the production of vegetables and fruits, purchasing agricultural products, their processing and sale. The company has a total of about 30 cooperatives, small farms that are primarily engaged in the production of organic certified vegetables, and which deliver all produced goods, on average about 100 tons per year, to Radanska Ruža, which processes these raw materials into finished products, organically certified ajvara, jams, juices and other products, which it mainly exports and sells on the Austrian market. The company actively implements and uses all modern methods in its operations, practices and implements measures for sustainable agriculture with the support of state incentives, as well as with the support of many

programs of non-governmental organizations.

"Green Star" was founded as a cooperative of small vegetable producers from the Leskovac area, and over time they developed a profile as an organization that concludes contracts for production with subcontractors, purchases goods from them, sorts, packs and sells to the largest retail chains in the country and the surrounding area. They are in significant production. They use modern technologies in the production, sorting and packaging process of products, and thus strive for a modern and sustainable agricultural sector.

The third working day was dedicated to idea generation, exchange of experiences and workshops on how to use knowledge from the field of sustainable agriculture in creating new curricula. Future steps in the implementation of the project were also discussed.

At the end of the training, all project participants drew conclusions and presented future plans in interactive communication.



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**Teacher training to improve environmental education teaching
 sustainability and technological progress**

AGENDA

Place: Hotel "Bavka" Leskovac, Serbia

Time: August 22-24, 2025

August 22, 2025 Arrival	
Agenda August 22, 2025 - first day	
09:00	Registration
Introduction	
09:00- 09:30	Opening of the training and welcome - Branko Rajčević, Igor Nikolov Presentation of the training participants - Branko Rajčević, Igor Nikolov Expectations from the training - Branko Rajčević, Igor Nikolov Presentation of the goals and methods of the training - Branko Rajčević, Igor Nikolov
Session 1 Introduction – presenting sustainable development and agriculture in educational settings programs	
09:30- 11:00	Discussion - Brainstorming - Sasha Raskovic - Please indicate in which subjects you teach sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of new technologies Presentation - Sasha Raskovic - Representation of sustainable development and agriculture in educational programs
11:00- 11:30	Coffee break
Session 2 Sustainable Development and Agriculture	
11:30-13:00	Presentation - Sustainable agricultural practices – Sasha Raskovic Discussion - How can sustainable agricultural practices be implemented in teaching – Saša Rašković
13:00-14:00	Lunch



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14:00-13:30	Presentation - Precision Agriculture – Sasha Raskovic Discussion - How precision agriculture can be applied in teaching – Sasha Raškovič
15:30- 15:45	Coffee break
15:45-17:00	Presentation - Organic farming – Sasha Raskovic Discussion -How organic farming can be applied in teaching – Saša Raškovič
Agenda August 23, 2025 – second day	
Session 2 Sustainable Development and Agriculture	
09:00-10:30	Presentation - Renewable energy sources in agriculture – Sasha Raškovič Discussion - How renewable energy sources can be applied to agriculture in teaching – Saša Raškovič
10:30-12:00	Presentation - Use of new technology in agriculture – Sasha Raškovič Discussion - How the use of new technology in agriculture can be applied in teaching – Sasha Raškovič
12:00- 12:15	Coffee break
Session 3 Field visit to agricultural farms	
12:15- 14:00	Field visit to agricultural farms that practice sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technologies in agriculture - Research on the practical application of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technologies in agriculture
14:00-15:00	Lunch
15:00- 17:00	Field visit to agricultural farms that practice sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technologies in agriculture - Research on the practical application of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and the use of new technologies in agriculture



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Agenda August 24, 2025 – third day

Session 6 Implementation of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and use of technology in agriculture in curricula and programs	
09:00- 11:00	Discussion - Brainstorming – Sasha Raskovic - Is sustainable development important for agriculture? - Which of the presented and practical applications can be included in the teaching? - Where in the teaching can the areas of... Presentation – Sasha Raskovic - Proposed curriculum for sustainable development and agriculture
11:00- 11:30	Coffee break
11:30- 13:00	Workshop - Sasha Raskovic - Implementation of sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources and use of technology in agriculture in curricula Presentation of individual papers
13:00-14:00	Closing remarks - Branko Rajčević, Igor Nikolov Future activities - Branko Rajčević, Igor Nikolov
13:00-14:00	Lunch
14.00	Departure

Place of training

The training took place at the Bavka Hotel, Leskovac, the part that concerned theoretical training, discussions and a workshop.

The practical, field part was conducted in Leban-Radanska Ruža, which included a visit to the processing plant and a field visit to one of the subcontractors that produces organic vegetables for Radanska Ruža, while the second part of the field training was conducted in Leskovac-Vinarc at the company "Zelena Zvezda", where the facility for purchasing, sorting, packaging and storing vegetables was visited, as well as the surrounding production areas-greenhouses where the production of the vegetables themselves takes place.

Training participants

The training was attended by 5 teachers of vocational and theoretical subjects and practical teaching. The teachers teach students from different years of education.



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Participants in the training:

1. Ljubinko Stefanović, Biotechnology School "Šumatovac", Aleksinac
2. Nevenka Rilak, Secondary School "Sveti Trifun" with student dormitory, Aleksandrovac.
3. Milana Marinković, Agricultural and Chemical School "Dr. Gjorge Radić", Kraljevo.
4. Danica Marković, Agricultural School "Radoš Jovanović Selja", Prokuplje.
5. Stanje Krstić, "Josif Panjić" Agricultural and Forestry School, Surdulica.

Training planning

The planning process included:

Designing training in a way that makes it easily accessible, meaningful, and realistic for the participants-listeners in our business and life circumstances. Data and methods that are realistically feasible in our environment were used, as well as examples of good practice that can document this.

The agenda was adjusted so that the training participants could first acquire basic theoretical knowledge about the elements of sustainable agriculture, and then validate and confirm the same knowledge with the companies that were visited, which actually apply these practices and which have all the benefits. The agenda of the entire event is attached to the report.

The key criterion for selecting the companies to be visited was these companies realistically and in practice to implement and apply some of the methods of sustainable agriculture, so that the training participants could see all the steps and all the benefits. For practical reasons, we chose companies that are in the immediate environment.

Implementation

The implementation also includes a training course. The following activities were carried out during the training:

First day - Theoretical training on 3 topics of sustainable agriculture



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Second day - Theoretical training on 2 topics of sustainable agriculture and practical field training during a company visit on the topic of applying methods and practices of sustainable agriculture



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Third day - Discussion on the achieved training goals, development of ideas and workshops for the implementation of sustainable agriculture topics in the curricula



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Reflection and conclusion

After the training, a discussion was held on the possibilities for implementing and integrating curriculum content on sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of new technologies in agriculture into the curricula. The following emerged from the discussion:

the following conclusions:

- Sustainable agricultural practices:

Introducing content on sustainable agricultural practices into the curriculum contributes to the development of environmental awareness among students and encourages a responsible attitude towards natural resources.

It was suggested that through examples of good practice and real-life situations, students familiarize themselves with the principles of crop rotation, soil conservation, rational use of water and protection of biodiversity.

The importance of including the topic of climate change and its impact on agriculture within cross-curricular teaching was emphasized.

- Precision farming:

Precision agriculture has been recognized as a key area for the development of modern teaching because it connects ICT and agricultural production.

It was suggested to include practical examples of the application of sensors, drones, GPS systems, and crop monitoring software in teaching units.

It was concluded that this area can be successfully integrated into the teaching of technology, computer science and natural sciences, as well as vocational subjects in agricultural schools.

- Organic farming:

Organic farming provides students with the opportunity to gain knowledge about healthier and more environmentally friendly methods of food production.

The discussion emphasized the importance of familiarizing students with domestic and European standards for organic production, as well as the certification process.

It was suggested that this topic be made interesting and applicable through school projects, practical work, and visits to organic farms.

Renewable energy sources:



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Special emphasis was placed on the importance of education about renewable energy sources such as solar, wind and biomass in agriculture.

It was emphasized that this topic is relevant for teaching physics, technology and ecology, with the possibility of demonstrating the use of small solar panels or biogas plants.

The idea of creating teaching modules that explain to students the economic and environmental benefits of using renewable energy sources in rural areas was supported.

Use of new, modern technologies in agriculture:

The use of digital technologies in agriculture (apps, automated irrigation systems, satellite monitoring) is an important aspect of modern education.

The need to bring technological innovations closer to students through simulations, ICT tools, and collaboration with agricultural institutions and companies was highlighted.

It is proposed to introduce project-based teaching and practical activities that encourage students to apply technologies in solving real problems in agricultural production.

Aleksandrovac

Trainer

Date 26.08.2025 year

Sasha Raskovic



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