



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

List of identified available literature and materials on sustainable agriculture practices

Engaged teachers: Stefanovski Saso, Milosheva Zaklina, Jovanova Kristina, Doncheva Milica, Nikolov Efremcho, Slavkovic Sonja

Location: Kumanovo, Sveti Nikole, Skopje, Strumica, Kavadarci

R.b.	Title Manual	Short description
1	for Organic Agriculture Publisher: Ministry of Agriculture, Forestry and Water Management (MAWF) Language: Macedonian Type: Manual (PDF) http://www.mzsv.gov.mk/sites/default/files/Priracnik_za_Organiko_Agriculture.pdf	Explains in detail the principles of organic production, permitted preparations, certification, storage and marketing. Contains examples from local farms. For whom: Teachers, 3rd and 4th grade students Available via the MAFWE website or on request in printed form.
2	FAO e-learning Academy – "Sustainable Soil Management" Publisher: FAO (Food and Agriculture Organization of the United Nations) Language: English (with subtitles) Type: Free online course with certificate https://elearning.fao.org	It covers practices for soil protection, fertility, erosion and sustainable management. It includes visual resources, quizzes and examples from different countries. This is about applying agricultural practices with aspects of organic production. https://elearning.fao.org
3	IFOAM - "Organic Farming Principles and Practices" Publisher: IFOAM – Organics International Language: English Type: Guide / Manual (PDF) www.ifoam.bio	Basic principles and standards for organic farming, global practices and examples. Clear to use and suitable for adaptation in teaching. www.ifoam.bio
4	Manual "Agroecological Practices" – GIZ/FAO Publisher: GIZ and FAO, adapted for the Western Balkans Language: Macedonian/Serbian Type: PDF publication https://www.giz.de/en/downloads/giz2018-agroecological-practices.pdf	Contains 10+ agroecological practices such as: crop rotation, cover crops, biological protection, solar systems, conservation processing. Recommendation: For practical teaching and debates with students It can be found through regional educational portals or GIZ partners
5	ResearchGate – scientific papers (open access) Publisher: Various (universities, institutes) Language: English Type: Scientific Papers	Search keywords: "Sustainable agriculture" "Crop rotation + soil health" "Organic pest control"



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	https://www.researchgate.net/	www.researchgate.net Tip: Teachers can extract parts for presentations, projects and analysis.
6	YouTube channel – "FAO Video Library" Type: Videos (animated, interviews, tutorials) https://www.youtube.com/c/FAOVideos	Visual explanations of sustainable agriculture, water efficiency, biosecurity, climate adaptation. Suitable for students with visual learning. https://www.youtube.com/user/FAOoftheUN
7	"Sustainable Agriculture: Definitions and Terms" Publisher: United States Department of Agriculture (USDA) https://www.nal.usda.gov/afsic/sustainable-agriculture-definitions-and-terms	A detailed overview of concepts and terms related to sustainable agriculture.
8	"Principles of Sustainable Soil Management in Agroecosystems" Publisher: Food and Agriculture Organization (FAO) http://www.fao.org/3/y4252e/y4252e00.htm	Publication with a focus on soil management within sustainable agriculture.
9	"Agroecology for Sustainable Food Systems" Publisher: International Panel of Experts on Sustainable Food Systems (IPES-Food) http://www.ipes-food.org/_img/upload/files/AgroecologyReport.pdf	Report on the role of agroecology in sustainable food production.
10	"Sustainable Farming Systems" Publisher: The Rodale Institute https://rodaleinstitute.org/why-organic/organic-farming-practices/	Practical information and studies on organic and sustainable agriculture.
11	Good agricultural practices – a contribution to sustainable agriculture https://faktor.mk/dobri-zemjodelski-praktiki-pridones-za-odrzljivo-zemjodelstvo	As a result of the rapid social and economic changes that are happening today happening in our country and in the world, good agricultural practices (GAP) are developing more and more together in correlation with the rapid changes and globalization in agriculture and the food industry. Today there are several interested entities that are responsible for producing healthy, safe, ecologically clean food, which ensures both sustainable agriculture and environmental protection. All stakeholders of our social life such as: government, the food industry and retail market, farmers and consumers,





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		strive to achieve the goals of safe and quality food, effective production for the nutrition of the population and environmental protection. Good agricultural practice suggests ways to achieve those goals. To ensure healthy, safe and quality food and agricultural products, the DZP applies available knowledge to solve problems related to the broader with the environmental, economic and social sustainability of agriculture and production processes. Many farmers in developed and developing countries already apply good agricultural practices through sustainable agricultural measures, such as: integrated pest management, integrated production management food and environmental protection an environment with so-called thrifty agriculture. FAO proposes a set of generic indicators and practices for DFA. They relate to aspects related to soil and water management, crop production, plant protection, animal husbandry and animal health, harvesting, processing and storage of agricultural products products in the economy, energy in waste production and management, well-being, health and safety of food, wildlife and nature landscape. (data extracted from Prof. Dr. Boris Anakiev)
12	Center for the promotion of sustainable agricultural practices and rural development with a multidisciplinary approach	Promotion of sustainable agricultural practices and rural



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	http://www.ceprosard.org.mk/	development through multidisciplinary access.
13	Sustainable Agriculture: How to Farm Green https://www.milkiagrow.com/mk/news/sustainable-agriculture-how-to-farm-green/	Sustainable Agriculture: How to it is grown green Sustainable agriculture focuses on agricultural methods that protect the environment, maintain soil fertility, and support economic and social well-being. The anthropogenic factor plays a key role in this approach, by adopting practices that reduce water pollution and conserve resources. Agriculture accounts for... 70% of global freshwater withdrawals and contributes to 78% of ocean and freshwater eutrophication. By adopting sustainable methods, you help mitigate these impacts. Techniques such as cover cropping production not only reduce the risks of water pollution, but also remove CO2 from the atmosphere, making your farm more environmentally friendly and resilient.
14	Energy efficient practices as a solution to climate change https://ekosvest.com.mk/wp-content/uploads/2024/02/	Energy efficient practices as a solution to climate change In addition to the fact that agricultural development is important for both farmers and the national economy, it is also important for the future food security of the Republic of North Macedonia. The increase in population in The world and climate change have made food security a top priority for all governments. This requires a coordinated, multi-sectoral approach to ensure the sustainability of the agriculture sector and its





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		adaptation to the challenges they face are brought by climate change. Local governments should be the bearers of programs and initiatives that will respond to climate challenges changes in the agricultural sector at the local level
15	Sustainable agricultural practices and accreditation https://www.accredit.org/mk/blog/environment/sustainable-agriculture-practices-accreditation/	Sustainable Agricultural Practices Accreditation is a formal certification process designed to verify whether agricultural operations are adhere to established sustainable practices. This form of accreditation involves a thorough evaluation of agricultural practices. techniques, resource management, crop production and more to ensure that they comply with the principles of sustainability. Accredited farms and agricultural businesses demonstrate their commitment to practices that are environmentally sound, economically viable, and socially responsible.
16	Digital models for irrigation control https://www.epicentar.mk/index.php/mk/component/tipportfolio/portfolio/tehnicka-pomos-voveduvanje-odrzlivi-zemjodelski-praktiki	Digital models for control of irrigation in order to reduce the negative effects and excessive use of water in agriculture
17	https://www.opticlimatfarm.com/mk/a-news-container-hydroponic-farms-driving-sustainable-agriculture-practices	Container Hydroponic Farms: Driving Sustainable Agricultural Practices
18	Guide to Good Agricultural Practices https://www.nff.org.mk/wp-content/uploads/2017/12/Good-practice-guide-mk.pdf	Guide to Good Agricultural Practices
19	Certification of good agricultural practices https://www.sertifikasyon.net/mk/detay/iyi-tarim-uygulamalari-belgelendirme-sureci/	Certification of good agricultural practices
20	Benefits of good agricultural practices https://www.sertifikasyon.net/mk/detay/iyi-tarim-uygulamalari-certification-process/	Benefits of good agricultural practices
21	"Sustainable Agriculture – A Guide to Practical Applications" (FAO, 2017)	A manual that explains basic principles of sustainable agriculture, crop rotation, agroforestry systems, and use





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		organic fertilizers. Focus on small and medium-sized agricultural holdings.
22	"Agroecology: The Ecology of Sustainable Food Systems" – Stephen Gliessman	An academic book that explains it the agroecological approach in agriculture, with practical examples of healthy food and biodiversity protection.
23	"Conservation Agriculture for Sustainable Intensification" (Springer, 2018)	Research papers on practices such as minimum tillage, continuous mulching, and crop rotation cultures.
24	"Regenerative Agriculture" – Richard Perkins (2020)	A practical guide to soil rehabilitation, integration of livestock and crop production, and increasing biological diversity activity.
25	FAO E-learning Academy – "Sustainable Soil Management"	Free online course covering basics of soil management, erosion protection, organic matter and PH values.
26	"Sustainable Practices in Organic Agriculture" (IFOAM, 2021)	Material from the International Federation of Organic Agriculture, with a focus on natural pesticides, composting, and certification.
27	"Agroforestry Systems in Sustainable Agriculture" – World Agroforestry Centre	Strategies for combining trees with agricultural crops to improve microclimate, water balance and income
28	"Climate-Smart Agriculture Sourcebook" – FAO	A comprehensive handbook for agricultural adaptation to climate change, water resources management, and sustainable productivity.
29	"Permaculture: A Designers' Manual" – Bill Mollison	A classic book on permaculture designs, systems approaches, and minimizing waste in agricultural production.
30	"Green Economy and Rural Sustainability" – UNDP Macedonia (2019)	Regional report and practical examples of applicable technologies and good practices for green agriculture in Macedonia and the Western Balkans.
31	Good Agricultural Practices Manual (Practice)	• soil protection and fertility, • erosion control, pollution, • integrated practices in





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		vegetable and livestock production. PDF available via Scribd
32	Sustainable Agriculture Land Management Practices for Climate Change Mitigation Authors: John Recha https://www.researchgate.net/publication/283731434_Sustainable_Agriculture_Land_Management_Practices_for_Climate_Change_Mitigation	• agricultural-networking management, • agroforestry, integrated practices for soil, water and pests. Direct PDF link to the CGIAR digital archive
33	FAO Agroecology Handbook: Farmer's Manual on Sustainable Practices Publisher: Focus on the Global South Author: PT George https://www.fao.org/family-farming/detail/en/c/1193507/	A practical guide that explains: • agroecological techniques, • soil and water management, biological protection, organic integration. PDF free via FAO resource
34	Technical Manual: Conservation Agriculture (Eastern Africa) Published 2010 by Sustainable Agriculture Information Initiative https://www.fsnnetwork.org/sites/default/files/technical_manual_-_conservation_agriculture.pdf	A practical guide to Good Agricultural Practices (GAP) with a focus on: • conservation agriculture, crop rotation, minimum tillage, biodiversity. PDF available via Scribd author SUSTAINET EA
35	Conservation Agriculture: Training Guide for Extension Agents and Farmers in Eastern Europe and Central Asia By Corsi, S.; Muminjanov, H.;	Agriculture in Eastern Europe and Central Asia is diverse and has great potential to revitalize the economies of the countries in the region through improved productivity (efficiency) and higher overall yields for food, feed and vegetable crops. Conservation agriculture can address the great challenge of making the sustainable intensification of production systems a reality. In order for farmers to transition to appropriate sustainable production systems, from Providing an appropriate enabling environment and access to knowledge and services, including advisory services, is crucial.



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		mechanization, inputs and market information. This Guide is designed to provide coherent technical tools for farmer field schools and facilitators of conservation agriculture advisory services. Furthermore, the Guide is suitable for use within university curricula agriculture programs.
36	Handbook on Agroecology : Farmer's Manual on Sustainable Practices Author : PT George & Afsar Jafri https://focusweb.org/wp-content/uploads/2017/04/Agriculture-Science_0.pdf	A practical guide with agroecological techniques, soil management, water, biological protection and organic production.
37	Toward a Sustainable Agriculture: Farming Practices and Water Use (MDPI, 2017) by Manfred Max Bergman, Henry Jordaan https://www.mdpi.com/books/edition/820-toward-a-sustainable-agriculture-farming-practices-and-water-use	An open textbook that focuses of sustainable practices production and management water; readily available as PDF It aims to contribute to the agri-food sector's need for science-based evidence needed for coping with these challenging demands. In this book, various scientists investigate risks and potential solutions to inform producers and policymakers about sustainable practices production in the context of climate change.
38	Sustainable Agriculture and Soil Conservation (MDPI, 2021) by Concetta Eliana Gattullo, Anna Maria Stellacc, Mirko Castellin, Mariangela Diacono https://www.mdpi.com/books/reprint/4690-sustainable-agriculture-and-soil-conservation	A collection of scientific papers on soil protection and improvement, including organic farming, mulching, and soil contaminant management, with free PDF access. Soil degradation is one of the most pressing environmental threats. A number of processes that cause soil degradation, especially erosion,



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		compaction, salinization, pollution and loss of both soil organic matter and biodiversity are also closely linked to agricultural activity and its intensification. The development and adoption of sustainable agronomic practices capable of preserving and improving the physical, chemical and biological properties of soils and enhancing agroecosystem functions is a challenge for both scientists and farmers. The special issue entitled "Sustainable Agriculture and Soil Protection" brings together 12 original contributions addressing the state-of-the-art technology of sustainable agriculture and soil protection. The papers cover a wide range of topics, including organic farming, soil improvement, soil and soil organic carbon (SOC) management, the impact of SOC on soil water resistance, the effects of soil tillage on the amount of SOC associated with several fractions of soil particles and depth, as well as SOC prediction, using visible and near-infrared spectra and multivariate modeling. In addition, the effects of some soil contaminants (e.g., crude oil, tungsten, copper, and polycyclic aromatic hydrocarbons) are discussed or reviewed in the light of recent literature. The collection of manuscripts presented in this special issue provides a relevant
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		contributing to knowledge to improve our understanding of sustainable agriculture and soil conservation, thereby stimulating new perspectives on this major topic.
39	Sustainable Agriculture: Theories, Methods, Practices and Policies (MDPI, 2024) by Moucheng Liu, Xin Chen, Yuanmei https://www.mdpi.com/books/reprint/9328-sustainable-agriculture-theories-methods-practices-and-policies	The progress of science and technology and the intensive use of land have promoted the rapid development of modern agriculture. Meanwhile, however, modern agriculture has caused global ecological and environmental problems due to the consumption of large amounts of resources and energy. To cope with these challenges, we must reexamine theories, policies, models and the technologies involved in modern agricultural development, which includes new concepts and methods of agriculture: for example, organic farming, integrated farming, circular farming and ecological farming. There is a growing awareness that the development of sustainable agriculture should not only increase yields to meet people's demands, but should also improve quality of the product and to promote multifunctionality of the agricultural ecosystem. Although the study and practices of sustainable agriculture have achieved outstanding results in the past 40 years, the development of the social economy and the current challenges of world agriculture require significant consideration for the future of agriculture. Summarizing available knowledge and lessons, analyzing related problems, and mapping future developments will help in





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		promoting the practice and the policy of sustainability agriculture, as well as innovating the theory and methods of sustainable agriculture. This reprint edition includes 16 articles that focus on theoretical methods, policies and practical experience related to sustainable agricultural development, in order to contribute to the sustainable development of agriculture and food security.
40	Conservation Agriculture and Its Principles – Andjela B Stanojevic (2021)	Conventional agriculture is the biggest enemy of healthy soil; it is not designed for soil improvement, but for rapid economic growth. If we want To improve the quality of the soil, and thus the quality of our lives, we need to turn our fitness field of interest to application of the so-called conservative agriculture, which belongs to principles of sustainable nature. Conservative agriculture is is based on three principles: minimal tillage and soil disturbance, permanent soil cover with residues from cultures. and live mulches and intercropping. Minimum tillage minimizes organic matter losses in soil and leads to an increase in soil carbon and nitrogen stocks. An increase of one percent in organic matter can store 10 times more tons of carbon dioxide. In this way, the release of carbon dioxide into the atmosphere is significantly .slightly reduced. In addition,





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		To maintain a healthy soil system, no bare soil should be left. Permanently covered soil leads to many advantages: Maintaining the capacity of water in the soil that prevents drying of the soil (water is constantly absorbed by the crops), reduces erosion and compaction the soil, controls nutrients substances, controls weeds and increases yields. Additionally, Mutual cultivation is a way for creating an ecological balance, increasing diversity in the agricultural ecosystem, increasing the quantity and quality of agricultural crops and reducing yield damage. of pests, diseases and weeds. Conservative agriculture gives us the opportunity to more efficiently we use natural resources in a timely manner with minimal impact. Evidence Library for
41	https://mk.eureporter.co/environment/2025/02/24/farming-practices-evidence-library-a-tool-for-agricultural-sustainability/	agricultural practices, a comprehensive database that collects scientific knowledge on the environmental and climate effects of different agricultural methods. Accompanied by a user that on dashboard, a tool provides accessible science-based evidence for creators, farmers, and researchers. on policies, The evidence library allows users to analyze and compare data on the impacts of agricultural practices, while also summarizing them a the key findings of the research.



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		Contains an analysis of thirty four practices and their environmental impacts
42	Handbook for Good Agricultural Practices in the Osogovo Region Authors: Plant production: Prof. Dr. Gordana Popsimonova Livestock Production: Prof. Dr. Vladimir Dzabirski Environmental Protection: Prof. Dr. Ljupcho Melovski Publisher: Macedonian Ecological Society Skopje 2009	
43	Your Sustainable Small Farm A Practical Guide for Thriving in Eco-Friendly Agriculture: Go From Backyard Garden to Viable Business Issued – October 6, 2024 Author: James Ellison Your Sustainable Small Farm A Practical Guide for Thriving in Eco- Friendly Agriculture: Go From Backyard Garden to Viable Business: Ellison, James: 9798341404571: Amazon.com: Books	This book provides advice on running an eco-friendly farm, regardless of your current experience or the size of the farm. Contents that are covered are: • tools for creating a sustainable way of farming • exploiting the benefits of on planning • basic sustainable farming practices to support your business • basics of crop rotation for your soil and productivity • composting tips and waste reduction • ethical management of goods, beneficial for animals and the environment
44	Energy in Agroecosystems A Tool for Assessing Sustainability Author: Casado, Manuel Gonzalez de Molina Issued: October 18, 2019 ISBN 9780367436049 Publisher: CRC Press https://www.routledge.com/Energy-in-Agroecosystems-A-Tool-for-Assessing-Sustainability/Casado-deMolina/p/book/9780367436049	Energy in agroecosystems is sustainability assessment tool and a book on energy analysis specifically dedicated to agriculture. It was written by agroecological perspective and exceeds the conventional analyzing the efficient use of energy. The book provides a methodological guide for assessment of energy efficiency and sustainability from an eco-energy perspective. Case studies from Europe and America, which are representative of the most used today's scales of analysis (culture, farm, local or national level) and the various





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		farm management practices (industrialized and modern (traditional, organic), apply this methodology. This book will be of primary interest researchers, practitioners and students working in the fields of agroecology, sustainable agriculture, environmental science, energy analysis, natural resource management, rural development and international development.
45	Handbook on renewable energy sources in rural areas Publisher: CeProSARD https://www.ceprosard.org.mk/MK/PDF/PRIRACNIK_OBNOVLIVI%20SOURCES_mk.pdf	The Center for Promotion of Sustainable Agricultural Practices and Rural Development has published a manual that focuses on the use of renewable energy sources and energy efficiency in agriculture in rural areas in the Republic of Macedonia.
46	Challenges and potential pathways towards sustainable agriculture crop production: A systematic review to achieve sustainable development goals (SDGs)	The article shows a trade-off between the achieved security of food sustainable agriculture. Some of the articles focus on farmers' perceptions, land suitability and adaptation to development. • The conservation agriculture system is often on the climate, regions methods in on is being studied for sustainability in agriculture and food security.
47	Agroecology and Sustainable Agriculture: Conceptual Challenges and Opportunities—A Systematic Literature Review Authors: Karla Terán-Samaniego 1ORCID, Jesús Martín Robles-Parra , Irasema Vargas-Arispuro Miguel Ángel Martínez-Téllez, ORCID, María Cristina Garza-Lagler 2ORCID, David Félix-Gurríola, Mayra Lucía Maycotte-de la Peña 1ORCID, Julio César Tafolla-Arellano 6ORCID, Jorge Alan García-Figueroa 5ORCID and Pablo César Espinoza-López Agroecology and Sustainable Agriculture: Conceptual Challenges and Opportunities —A Systematic Literature Review https://doi.org/10.3390/su17051805	This study aims to delineate the conceptual boundaries of agroecology and sustainable agriculture, while explaining their interrelationships. It seeks to clarify the scope and limitations present in these agricultural practices, which is critical given the central role of sustainable agriculture With in agrarian studies.





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	Issued: 20 February 2025	the determination of these boundaries, the research establishes methodologies for identifying relevant variables and indicators needed for effective stakeholder involvement in agricultural systems. Waste
48	Waste Management for Sustainable and Restored Agricultural Soil Dr. Vijay Singh Meenar	management for sustainable and restored agricultural soil offers a holistic approach to various waste management for plant nutrients, highlighting mechanisms for the importance of improving plant growth, nutrient concentration and sustainability of the on the system for increasing agricultural production crops and achieving desired ecological goals. Covering a broad overview of different types of waste and methods of waste recycling and sustainable management for soil health, this book focuses both basic and applied aspects of waste management for sustainable agriculture and how nutrients become available through waste. academics, professionals, researchers and bringers of policies working in the area of safe waste management for potential agricultural production use will in benefit from this book.
49	Pathways to Sustainability: Strategies for Carbon Reduction, Resource Efficiency, Renewable Energy, Waste Management, Sustainable Agriculture, and Policy Solutions for a Greener Future Author: Jordan Wilder Issued: July 19, 2024 ISBN-13979-833353595 8 New Sustainable Agriculture Books To Read in 2025 - BookAuthority	A book on sustainable agriculture that integrates a wide range of environmental strategies to address sustainability from multiple angles. Contains insights into carbon methods, renewable energy adoption, waste reduction of management innovations, and policy frameworks that support sustainable





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		agriculture. health The chapters for biodiversity on the soil and offer practical perspectives that can change thinking about food systems and ecological balance. This the way on book is suitable for everyone from individual consumers to business leaders and eco-conscious policy makers who are strive to implement systemic changes in sustainability practices.
50	"What is Sustainable Agriculture" https://www.sare.org/resources/what-i....	The video series "What is Sustainable Agriculture" highlights some of the common practices used by farmers and ranchers to improve profitability, quality of life and protection of environment. "Comprehensive farming sustainability" access towards offers short, animated overview of the basic principles that can be used to introduce or supplement more extensive training materials.
51	What is good agricultural practice? https://www.sertifikasi.net/mk/detay/iyi-tarim-aplikasi-nedir/	Description of good agricultural practices, explains the method of certification of good agricultural practices, Advantages of good agricultural practices Explanation of what is
52	Accreditation of good agricultural practices https://www.accredit.org/	accreditation for sustainable agricultural practices and the importance of accreditation of sustainable agricultural practices practices, as well as accreditation criteria and what are the benefits of accreditation of good agricultural practices
53	What is sustainable agriculture?	A simple explanation of the basic principles of sustainable agriculture, easy



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	https://agrotim.mk/shto-pretstavuva-odrzhivo-zemijedelstvo/	understandable for students from secondary vocational schools
54	New agricultural technologies in modern agriculture https://mazz.mk/moderno-zemijedelstvo/novi-zemijedelski-tehnologii-vo-sovremeto-zemijedelstvo/	Display of new technological innovations in areas such as are closed vertical farming, automation and robotics, livestock technology, modern greenhouse practices, precision farming, artificial intelligence, and blockchain technology.
55	Sustainable practices in the use of vertical farming equipment https://www.opticlimatfarm.com/mk/a-news-sustainable-practices-in-vertical-farming-equipment-use	Advantages and disadvantages of vertical cultivation of agricultural crops.



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