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Building a European Model of Agricultural Land Use in Terms of the Sustainable Development

Meeting days, Time, Location: according to the class
schedule

Semester: 2nd, **Year:** 1st

Credits: 3

The number of lecture hours: 90;
of them: 26 – lectures; 34 – seminars/practices

Independent work: 30

Course in Moodle:

<https://moodle.mnau.edu.ua/course/view.php?id=2704>

Information about teachers

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Work place Auditorium 111M

Hours of work On Tuesdays from 15:05 to 16:25

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Hours of work On Mondays, from 15:05 to 16:25

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Hours of work On Wednesdays from 15:05 to 16:25

Course description

- In Ukraine, the search for the optimal model of the organization of land relations continues, while each European state has developed its own concept of land management. In this sense, the experience of the civilized developed countries of the EU, with which the

Ukrainian nation strives for integration, is a valuable basis for the formation of a model of sustainable development of agricultural land use as a basis for ensuring food security. European experience will help build an optimal model of Ukraine's land resources, taking into account historical, social, economic and environmental factors. The discipline "Building a European Model of Agricultural Land Use in Terms of the Sustainable Development" provides knowledge about existing models of agro-food systems based on the principles of sustainable development of agriculture in EU countries.

- The educational discipline "Building a European Model of Agricultural Land Use in Terms of the Sustainable Development" is a component of the block of selective educational components of the training plan for applicants of the second (master's) level of higher education.

Purpose and objectives of the course

- The main **goal** of studying the discipline is to deepen the knowledge and skills of students in the field of land relations of the EU countries, through the development and implementation of the educational module "Building a European Model of Agricultural Land Use in Terms of the Sustainable Development".
- The main **tasks** to be solved in the process of studying the discipline are:
 - 1) familiarizing students with the main tools of the economic mechanism of the land fund protection and stimulation of rational land use in the EU, with the basic principles of the organization and functioning of the land use system in the EU and the implementation of its provisions in the practice of land resources management of Ukraine, with issues of food provision on the basis of sustainable development of agricultural land use in EU countries;
 - 2) formation of students' knowledge system based on awareness of the general patterns of market regulation and use of land resources in the EU countries, principles of sustainable development of land use, land legislation in the EU and peculiarities of its implementation in Ukraine.

Competencies that the applicant will acquire as a result of training (learning goals):

- **General competence:** Ability to generate new ideas (creativity);
- **Special competence:** Ability to choose and use management concepts, methods and tools, including in accordance with defined goals and international standards;
- **Special competence:** Ability to analyze and structure organizational problems, make effective management decisions and ensure their implementation.

Programmable learning outcome (Learning outcomes):

- Program learning outcome: To have the skills to make, substantiate and ensure the implementation of management decisions in unpredictable conditions, taking into account the requirements of current legislation, ethical considerations and social responsibility.

Organization of training and syllabus schedule

No. of the week according to the schedule of the educational process	Topic	Question on the topic	Number of hours		
			classroom classes		independent work
			lectures	seminars / practice	
1st and 2nd weeks	Theme 1. The content of the theory of sustainable development of land use	<ol style="list-style-type: none"> 1. Key components of sustainable development 2. Growth limits 3. Chronology of the development of the idea of sustainable development 4. Prerequisites and regularities of Ukraine's transition to a model of sustainable development 	4	4	4
3rd and 4th weeks	Theme 2. Land resources, their composition and efficiency in the EU	<ol style="list-style-type: none"> 1. Processes of soil degradation, their consequences and costs in EU countries 2. Methodological approaches to determining the level of sustainability of agricultural land use in Ukraine and EU countries 3. Comparative assessment of the sustainability of agricultural land use in Ukraine and EU countries 	4	4	6
5th and 7th weeks	Theme 3. Economic relations in the field of land use in the EU	<ol style="list-style-type: none"> 1. The essence and boundaries of land markets in EU countries 2. Components of institutional support of land markets in EU countries 3. Regulation of the land market in EU countries 4. Common Agricultural Policy 	4	6	4
8th and 9th weeks	Theme 4. Principles of organization and functioning of the land use system in the EU	<ol style="list-style-type: none"> 1. The essence and principles of land management and land management in Ukraine and the EU 2. Mechanism of agricultural land management in Ukraine 3. The consequences of the expansion of Europe 	4	4	4

No. of the week according to the schedule of the educational process	Topic	Question on the topic	Number of hours		
			classroom classes		independent work
			lectures	seminars / practice	
		4. Priorities for the development of agriculture in Ukraine, taking into account the experience of the EU countries and the current agricultural model of the EU			
10th and 12th weeks	Theme 5. Economic mechanism of land fund protection and promotion of rational land use in the EU	<ol style="list-style-type: none"> 1. Land cadastre in Ukraine and EU countries 2. Comparative analysis of legal environmental norms in Ukraine and EU countries 3. Methodology for determining land prices and rent in EU countries - statistical presentation 4. The main factors affecting land prices 	4	6	4
13th and 15th weeks	Theme 6. European experience of food supply on the basis of sustainable development of agricultural land use	<ol style="list-style-type: none"> 1. The second goal of the SDGs is the goal and task 2. Implementation of European experience in the organization of short supply chains in Ukraine 3. Social, ecological and economic consequences of food losses and food waste in Ukraine 	4	6	4
16th and 17th weeks	Theme 7. The main tasks of the transformation of the land legislation of Ukraine in order to adapt to the requirements of the EU	<ol style="list-style-type: none"> 1. EU Land Policy Guidelines, EU Land Policy Guidelines 2. Conceptual approaches to establishing land ownership in Ukraine and EU countries 3. Priority tasks of land policy of Ukraine with the aim of adaptation to EU requirements 	2	4	4
In total			26	34	30

Educational resources

- The necessary educational and methodological support for the course is freely accessible to

all participants of the educational process:

- educational and methodological complex of the discipline – located in the educational and research laboratory of the Department of Enterprise Economics;
- educational and scientific literature – in the library of the Ukrainian National Academy of Sciences on paper and electronic media;
- educational course – on the educational platform Moodle;
- video materials – on the YouTube platform.
- When teaching the course, they are used
 - programs for organizing one-on-one conferences: Zoom; Google Meet; Jitsi Meet.
 - software products: Statplus LE; Excel; MS Office; PowerPoint; Paint and Prezi.
 - platforms and databases: LIGA:ZAKON, websites of the State Statistics Service of Ukraine and the Verkhovna Rada of Ukraine, UNECE Statistical Database, FAO Statistical Database, International Monetary Fund, Scopus, Web of science and others.

Evaluation

The final course grade is calculated using the following categories:

No. Topics	Form of control and assessment	Task content	Maximum points	Minimum points
I. Seminar classes				
1	Presentation of the report, activity in the discussion	Using the basic knowledge of the concept of sustainable development, the student independently analyzes the current state of land use and offers an option for organizing a model of sustainable development of land use for any of the regions of Ukraine	10	6
3	Activity in the business game	Using official open sources of Ukraine and EU countries, the student conducts research, as a result of which he must propose tools for the protection of the tenant, the owner-producer and the owner of the land	10	6
4	Presentation of the report, activity in the discussion	Using official open sources of Ukraine and EU countries, the student conducts research, as a result of which he must determine the priorities of the development of agriculture in the region/district/territorial community (as chosen by the student) of Ukraine	10	6
5	Activity in the round table	Using basic knowledge, the student, based on the experience of European countries, proposes a	10	6

No. Topics	Form of control and assessment	Task content	Maximum points	Minimum points
		mechanism (methods and approaches) for forming the price for the purchase, sale and lease of agricultural land in Ukraine		
6	Presentation of the report	To propose a model for the implementation of short supply chains in united territorial communities	10	6
7	Activity in the round table	Based on the experience of one of the EU countries, the student substantiates the priority tasks of Ukraine's land policy	10	6
II. Practical task				
2	Analytical report	Using official statistical data from open sources of Ukraine and EU countries, the student conducts a comparative characterization of the efficiency of agricultural land use in Ukraine and any of the EU countries	15	9
6	Analytical report	Determine the social, or ecological, or economic consequences of food loss and food waste in Ukraine/region/district (of the student's choice) for the last year for any type of food	15	9
III. Independent work				
1	Essay	The topic of the essay is arbitrary	10	6
Number of points			100	60
- Seminar classes		X	60	36
- Practical task			30	18
- Independent work			10	6

Applicants for higher education will be assigned the following final grades based on the points received for completed course tasks:

The sum of points for all types of educational activities	ECTS assessment	Evaluation on a national scale
90 - 100	A	is credited
82 - 89	B	
75 - 81	C	
64 - 74	D	
60 - 63	E	
35 - 59	FX	not credited with the possibility of re-compilation
0 - 34	F	not credited with mandatory repeated study of the discipline

Additional points may be credited for the student's scientific work, which includes:

- 1) participation in research work (preparation and publication of theses) – up to 10 points;
- 2) participation in intra-university Olympiads – up to 15 points;
- 3) participation in republican olympiads – up to 20 points;
- 4) successful completion of the English language test on the FAO elearning Academy platform via the link <https://elearning.fao.org/course/view.php?id=359> – 20 points.

Evaluation policy

- **Late-work policy:** in case of untimely submission of work without a valid reason, documented (for example, participation in a conference in another city, illness, etc.), the total number of points for such work will not exceed the minimum
- **Re-grade policy:** a student of higher education has the right to resubmit any type of work once for the purpose of increasing the grade, provided that such work was submitted for review within the prescribed time limits
- **Attendance and/or participation policy:** class attendance is not an assessed component of the course

Course policies

- **Academic integrity and cooperation:** analytical reports are checked for plagiarism. If plagiarism is detected, the work is not evaluated. The scientific supervisor is informed about the results of plagiarism.
- **Premises for students with disabilities:** in case of special needs, it is necessary to contact the vice-rector for scientific-pedagogical and educational work and professional development Natalya SHARATY, +380 (512) 34-01-36, sharata@mnau.edu.ua.
- **Psychological support of the educational process:** the University operates the Psychological-Pedagogical Laboratory of Scientific and Educational Innovative Technologies of Personality Development of the Mykolaiv National Agrarian University, which carries out its activities to provide social support and psychological support of the educational process among pedagogical and scientific-pedagogical workers and students. The services of this laboratory are free. You can learn more about the laboratory at the link: <https://www.mnau.edu.ua/vyh-rob/ps-sluzh/>.
- **Mobile devices:** The course has a zero-tolerance policy for mobile devices. Course classes are held in classroom 108M, which is equipped with computers and the necessary software for performing tasks.

Learning resources

Basic

1. Babych, M. (2019). Food security of Ukraine: theory, methodology, practice. *Dissertation for obtaining the scientific degree of Doctor of Economic Sciences by specialty "Economics and management of the national economy"*. Mykolayiv. 515 p.
2. Common Methodology on Land Prices and Rents. February 15, 2017. Repeals and replaces version dated December 2010 which had been established at a meeting of the

- Working Group on Agricultural Accounts and Prices, 1-2 December 2010 (Annex 1 of document ASA/AAP/133). <https://bit.ly/3UuBs1x>
3. DIRECTORATE-GENERAL FOR INTERNAL POLICIES. POLICY DEPARTMENT B: STRUCTURAL AND COHESION POLICIES. AGRICULTURE AND RURAL DEVELOPMENT. POSSIBLE EFFECTS ON EU LAND MARKETS OF NEW CAP DIRECT PAYMENTS. June 2013. IP/B/AGRI/IC/2012_66 PE 495.866. <https://bit.ly/3VpLZfw>
 4. EU Task Force on Land Tenure. EU LAND POLICY GUIDELINES. Guidelines for support to land policy design and land policy reform processes in developing countries. November 2004.
 5. EUROPEAN COMMISSION. EUROSTAT. Directorate E: Sectoral and regional statistics Unit E-1: Agriculture and fisheries. RESEARCH PAPER. Agricultural Land Prices and Rents data for the European Union, December 2016. <https://bit.ly/3ERdnvW>
 6. EUROPEAN COMMISSION. EUROSTAT. Draft Agricultural Land Prices and Rents Statistics Handbook (2020). <https://bit.ly/3B8MEKd>
 7. EUROPEAN COMMISSION. EUROSTAT. Land Prices and Rents. (2018). ESS Agreement on statistics of agricultural land prices and rents. <https://bit.ly/3Vz1MbZ>
 8. European Environment Agency. Land in Europe: prices, taxes and use patterns. EEA Technical report. No 4/2010. <https://www.eea.europa.eu/publications/land-in-europe>
 9. Kotykova, O. (2003). Ecological and economic efficiency of using the potential of land resources (based on the materials of agricultural formations of the Mykolaiv region). *Dissertation for obtaining the scientific degree of Candidate of Economic Sciences (PhD) by specialty "Agricultural and agribusiness economics"*. Mykolayiv. 164 p.
 10. Kotykova, O. (2011). Organizational and economic foundations of sustainable development of agricultural land use. *Dissertation for obtaining the scientific degree of Doctor of Economic Sciences by specialty "Economics and management of the national economy"*. Mykolayiv. 479 p.
 11. Kotyková, O. and Babych, M. (2021). The evaluation of agricultural land use sustainability in the post-socialist camp countries: methodological and practical aspects, *AGRIS on-line Papers in Economics and Informatics*, Vol. 8, No. 2, pp. 59-78. ISSN 1804-1930. DOI: [10.7160/aol.2021.130205](https://doi.org/10.7160/aol.2021.130205)
 12. Robert Mahoney, Peter Dale and Robin McLaren. Land markets - Why are they required and how will they develop? International Federation of Surveyors. Article of the Month, July 2007. <https://bit.ly/3H9v3pu>
 13. Swinnen, Johan; Van Herck, Kristine; Vranken, Liesbet (2014) : Land market regulations in Europe, LICOS Discussion Paper, No. 354, Katholieke Universiteit Leuven, LICOS Centre for Institutions and Economic Performance, Leuven. <https://bit.ly/3OZ3noT>

Additional

1. Babych M. (2018). Food Security and Nutrition Monitoring in the New Global Agenda «Sustainable Development Goals – 2016-2030». *International Journal of Innovative Technologies in Economy*. No. 3 (15). pp. 25—30.
2. Babych M. (2022). The conceptual principles of state policy of Ukraine in the field of food security in terms of European integration. *Economy and society*. 39. DOI: 10.32782/2524-0072/2022-39-76
3. Babych M. (2022). The formation of the criteria, rules, and regulations of the sufficient and high-quality food according to the European standards. *Modern Economics*. 32(2022). pp. 5-15. DOI: [10.31521/modecon.V32\(2022\)-01](https://doi.org/10.31521/modecon.V32(2022)-01).
4. Babych M.M. (2014). Formation of a stable financial system as a guarantee of the country's

- food security. *Efficient economy*. No. 11. URL: <http://www.economy.nayka.com.ua/?op=1&z=4017>
5. Babych M.M. (2014). Normative and legal regulation of the right to food in Ukraine. *Bulletin of Agrarian Science of the Black Sea Region*. Issue 3 (79). pp. 51—60.
 6. Babych M.M. (2014). The financial component of ensuring the country's food security. *Efficient economy*. No. 7. URL: <http://www.economy.nayka.com.ua/?op=1&z=4018>
 7. Babych M.M. (2015). Normative and legal regulation of food safety in the countries of the European Union. *Young scientist*. Issue 1 (16). pp. 41—45.
 8. Babych M.M. (2015). The current state of food security in Ukraine: the financial aspect. Global and national economic problems. No. 4. pp. 772—775. URL: <http://global-national.in.ua/archive/4-2015/163.pdf>
 9. Babych M.M. (2017). Conceptual-categorical essence of food security. *Economy and the state*. 2017. №6. C. 39—45.
 10. Babych M.M. (2017). Ensuring physical and economic availability of food through short supply chains. *International economic relations and the world economy*. No. 14. pp. 11—15.
 11. Babych M.M. (2017). Indicators of Ukraine's food security in the global dimension. *Economics and forecasting*. No. 1. pp. 108—127. DOI: [10.15407/eip2017.01.108](https://doi.org/10.15407/eip2017.01.108)
 12. Babych M.M. (2017). Monitoring and information provision of processes of formation of food security. *Economy and the state*. No. 2. pp. 32—36.
 13. Babych M.M. (2017). Problems of ensuring food security in Ukraine. *Agrosvit*. No. 3. pp. 32—39.
 14. Babych M.M. (2018). Challenges and scope of the problem of food loss and food waste in the global dimension. *World Science*. No. 5(33). pp. 4—9.
 15. Babych M.M. (2018). Criteria and indicators of food security at the global level. *Investments: Practice and Experience*. No. 10. pp. 56—59.
 16. Babych M.M. (2018). Environmental consequences of food loss and food waste (greenhouse gas emissions). *Web of Scholar*. No. 6 (24). pp. 8—15.
 17. Babych M.M. (2018). Estimation of wasted drinking water for lost food and food waste. *Agrosvit*. No. 11. pp. 17—21.
 18. Babych M.M. (2018). European experience of support policy and development strategy of short supply chains in Ukraine. *Investments: Practice and Experience*. No. 8. pp. 39—44.
 19. Babych M.M. (2018). Indicators of food security in Ukraine: current state and development trends. *Economy of agro-industrial complex*. No. 5. C. 41—50.
 20. Babych M.M. (2018). Organization and development of short supply chains: experience of the EU and prospects of Ukraine. *International economic relations and the world economy*. No. 18. pp. 26—30.
 21. Babych M.M. (2018). The essence and prerequisites for the development of short supply chains in Ukraine. *Sustainable economic development*. No. 2 (39). pp. 41—50.
 22. Babych M.M. (2018). Types and criteria of short supply chains. *Innovative economy*. No. 1-2. C.108—113.
 23. Babych M.M. Formation of the food security system: theory, methodology, practice. Mykolaiv: MNAU. 2018. 360 p.
 24. Babych M.M., Kotykova O.I. (2020). The state of development of aquaculture in the world according to the dimensions of SDG14 and opportunities for Ukraine. *KHNAU Bulletin*. No. 3. pp. 209-225. DOI: 10.31359/2312-3427-2020-3-209
 25. Babych M.M., Kotykova O.I., Pogorelova O.V., Bogoslavskaya A.V., Albeshchenko O.S., Yagodzinska A.S. Sustainable development of agriculture – the basis of food security of Ukraine. Mykolaiv: NUK, 2022. 162 p.

26. Babych M.M., Krylova I.G., Savenko O.S. (2017). The relationship between economic access to food and the level of labor productivity in agriculture. *International economic relations and the world economy*. No. 15. pp. 15—21.
27. Babych M.M., Zagrebaleiko Yu.Yu. (2016). Labor productivity in agriculture as a factor in ensuring food security. *Agrosvit*. No. 13-14. pp. 24—29.
28. Babych, M. (2018). Social-economic and environmental sustainability of short supply chains: opportunities for development rural territories. *Agricultural and Resource Economics: International Scientific E-Journal*, Vol. 41, No. 4, pp. 463-473. eISSN 2414-584x.
29. Babych, M. and Kovalenko, A. (2018). Food Security Indicators in Ukraine: Current State and Trends of Development. *Baltic Journal of Economic Studies*, Vol 4. No 1. Pp.8—15. DOI: [10.30525/2256-0742/2018-4-1-8-15](https://doi.org/10.30525/2256-0742/2018-4-1-8-15)
30. Babych, M., Kotykova, O., Pogorelova, O., Bogoslavskaya, A., Albeshchenko, S., Yagodzinska, A. (2022). Sustainable development of agriculture – the basis of food security of Ukraine. Mykolaiv: AMNUS. 162 p.
31. Financial and Economic Security and Accounting and Analytical Support in Business. *Monograph [Text]* / edited by V. Yatsenko // Olena Kotykova, Mikola Babych. Social indicators of sustainable use of the agricultural land and its impact on food supply in Ukraine / "East West" Association For Advanced Studies and Higher Education GmbH, Vienna, Austria, 2016. – P.61–69.
32. Kotykova O. (2021). The concept of food security on the basis of sustainable development of agricultural land use. *Bulletin of Agrarian Science of the Black Sea*. 2022. № 1 (26). DOI: [10.31521/2313-092X/2022-26\(1\)-4](https://doi.org/10.31521/2313-092X/2022-26(1)-4)
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34. Kotykova, O. (2017). Indication of the ecological state of agricultural land use in Ukraine: соціальний блок. *Bulletin of Agrarian Science of the Black Sea*. 1 (93). pp.26-37.
35. Kotykova, O. (2017). Monitoring and assessment of the sustainability of the development of agricultural land use in the regions of Ukraine. *Economy of agro-industrial complex*. 5. pp. 24-32.
36. Kotykova, O. (2017). State regulation of investment activities in the agricultural sector. *Efficient economy*. 9. URL: <http://www.economy.nayka.com.ua/?op=1&z=5758>
37. Kotykova, O. and Albeshchenko, O. (2017). An indication of the sustainable development of Ukraine in global dimensions. *Baltic Journal of Economic Studies*. Vol 3. No 5. Pp.196–202. DOI: [10.30525/2256-0742/2017-3-5-196-202](https://doi.org/10.30525/2256-0742/2017-3-5-196-202)
38. Kotykova, O. and Babych, M. (2019). Economic Impact of Food Loss and Waste, *AGRIS on-line Papers in Economics and Informatics*, Vol. 11, No. 3, pp. 57-71. DOI: [10.7160/aol.2019.110306](https://doi.org/10.7160/aol.2019.110306)
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40. Kotyková, O. and Babych, M. (2021). The evaluation of agricultural land use sustainability in the post-socialist camp countries: methodological and practical aspects, *AGRIS on-line Papers in Economics and Informatics*, Vol. 8, No. 2, pp. 59-78. DOI: [10.7160/aol.2021.130205](https://doi.org/10.7160/aol.2021.130205)
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42. Kotykova, O., Babych, M. and Kuzmenko, O. (2021). Environmental Impacts of Food Loss and Waste: Land Degradation, *Future of Food: Journal on Food, Agriculture and Society*, Vol. 9, No. 1, pp. 103-119. DOI: [10.17170/kobra-202102163255](https://doi.org/10.17170/kobra-202102163255)
43. Kotykova, O., Babych, M. and Oliinyk, T. (2020). Measures to reduce food loss and waste in Ukraine. *Agricultural and Resource Economics: International Scientific E-Journal*, Vol. 6, No. 4, pp. 144-167. eISSN 2414-584x. DOI: [10.51599/are.2020.06.04.08](https://doi.org/10.51599/are.2020.06.04.08).
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56. Kotykova, O., Novytskyi, A., Bazenko, V. (2017). The place of the Voznesensk district according to the indicators of the development of the grain production industry in the Mykolaiv region. *Agrosvit*. 9. pp. 3—11.
57. Kotykova, O., Ogorodnyk, E., Cherevko, L. (2017). Indication of the ecological state of agricultural land use in Ukraine. *Agrosvit*. 6. pp. 35-42.

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