Syllabus

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| Academic Year: | 2018/2019 | Group of subjects: |  | Catalogue number: |  |
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| Module title1):  | **GLOBAL FOOD PRODUCTION** | ECTS 2) | 2 |
| Polish Translation3):  | Światowa produkcja żywności  |
| Faculty4):  | Faculty of Agriculture and Biology |
| Person in charge of the module5):  | dr inż. Mariusz Maciejczak |
| Teachers responsible for laboratory classes, workshops and seminars6):  | dr inż. Mariusz Maciejczak |
| Unit responsible for the module7): | Department of Economics and Organization of Enterprises |
| Faculty in charge8): | Faculty of Economic Sciences |
| Module status9):  | a) mandatory ~~/ elective~~ | b) stage BSc | year 1 | c) intramural |
| Teaching cycle10):  | Semester: winter / ~~summer~~ | Module language11): English |  |
| Objectives of the module12): | The course develops knowledge in the field of food production in the world context through providing basic economic understanding of the functioning of global supply of agricultural and food products. It also develops and enhances practical professional skills in analyzing socio-economic implications of the food production due to the adaptation of sustainability paradigm in the agri-food sector under the dynamically changing situation in the co-dependent global and regional markets. During the course student develops also personal competences to be able to implement and critically evaluate personal actions and actions of others to improve proposed solutions. |
| Teaching forms and number of hours13): | Lectures: 15 h Auditorium practicals: 15 h  |
| Teaching methods14): | The course follows students cantered approach based on activity driven lectures and classes with discussions and case studies as well as practicals based on own and group works, discussions, consultations and evaluations; with an application of formative assessment methods. |
| Detailed module description15): | Lectures:. 1. Introduction to the course as well as basic economic definitions and concepts used.
2. Changing role of the agriculture and food production under the sustainability paradigm.
3. Outlook for world food production, consumption, availability and security.
4. The balancing role of trade in global and regional food security context.
5. Institutions and policies of global and reginal food production development.
6. The role of organic food production in the global food systems.
7. Indices and tools for analysis, decision making and communication of agriculture, food production and food systems.

Practicals: 1. Factors determining the changes of global food production.
2. Identifying global food production characteristics.
3. State of food and agriculture in global and regional statistical outlook.
4. The development of value added agricultural and food production (traditional, sustainable, organic, biodynamic, etc.).
5. The impact of organic production on global food systems.
6. Paths and scenarios for global food production development.
7. Peer review of final projects. Grading.
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| Formal prerequisites16): | None |
| Initial requirements17): | open mind, willingness to cooperation, problem solving attitude, critical thinking |
| Learning outcomes18): | Knowledge: 1. has a basic economic knowledge about the functioning of global supply of agricultural and food products;Skills:2. analyzes and assesses the economic effects of organic production;Personal competences:3. is able to work individually and in a group, assuming different roles in it, aiming to achieve the assumed goal. |
| Assessment methods19): | Learning outcomes are verified by: final project (LO 1) as well as preparation and participation in the class assignments and their assessment (LO2, LO3). |
| Formal documentation of the learning outcome20): | Grade in the eHMS system, written final report, written conclusions from class assignments.  |
| Elements impelling final grade21): | The final grade includes the assessment of the following elements measured in points:* final project 70;
* 1st class assignment 5 (statistics);
* 2nd class assignment 5 (organic);
* 3rd class assignment 10 (scenarios);
* 4th class assignment 10 (peer review of final projects).

Final passing is conditioned by getting min. 50% of the total learning outcomes, incl. min. 50% of the final project. Grading scale:

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| Number of points | Grade |
| < 50  | 2 (failed) |
| 51 - 60  | 3 (sufficient)  |
| 61 - 70  | 3 + (sufficient plus) |
| 71- 80  | 4 (good) |
| 81 – 90 | 4+ (very good) |
| 91 - 100  | 5 (excellent)  |

Student who will not pass the exam can repeat it during the second session. The rules of passing are the same as during the first time. |
| Teaching base22):  | Classrooms of the Faculty of Agriculture and Biology |
| Obligatory materials23): 1. Achim Dobermann, Rebecca Nelson. 2013. Solutions for Sustainable Agriculture and Food Systems. Technical report for the post-2015 Development Agenda. Prepared by the Thematic Group on Sustainable Agriculture and Food Systems of the Sustainable Development Solutions Network. www.unsdsn.org.
2. FAO. 2017. The future of food and agriculture – Trends and challenges. FAO. Rome.
3. FAO. 2018. The state of food and agriculture. <http://www.fao.org/publications/sofa>. FAO. Rome.
4. Helga Willer and Julia Lernoud 2018. Organic Agriculture Worldwide 2017: Current Statistics. Research Institute of Organic Agriculture (FiBL), Frick, Switzerland.
5. International Food Policy Research Institute. 2018. 2018 Global Food Policy Report. Washington, DC: International Food Policy Research Institute. https://doi.org/10.2499/9780896292970
6. Matias E. Margulis, Jessica Duncan. 2015. Global Food Security Governance: Key Actors, Issues and Dynamics [in] Mustafa Koc, Jennifer Sumner and Anthony Winson (eds). Critical Perspectives in Food Studies. Second Edition. Oxford University Press, London.
7. OECD. 2013. Global Food Security - Challenges for the Food and Agricultural System, OECD Publishing. Paris. http://dx.doi.org/10.1787/9789264195363-en
8. Tony Weis. 2017. The Global Food Economy: The Battle for the Future of Farming. Zed Books. London.

Supportive materials:1. Dalid L. Lebertin. 2012. Agricultural Production Economics. Second Edition. Amazon Createspace.
2. FAOSTAT. Food and agriculture data. <http://www.fao.org/faostat/en/#home>.
3. Mariusz Maciejczak, István Takács, Katalin Takács-György. 2018. Use of smart innovations for development of Climate Smart Agriculture. Annals of the Polish Association of Agricultural and Agribusiness Economists 2/ 2018, pp. 117-124
4. Mariusz Maciejczak, Janis Faltmann. 2017. Sustainable intensification of modern agriculture through production technologies on different readiness levels. Proceedings of IX International Scienfic Symposium “Farm Machinery and Processes Management In Sustainable Agriculture”, Lublin, Poland, 22-24 November 2017, pp. 216-222
 |
| Annotations24): There will be required additional time to spend before the class to make preparations (readings), which will be compulsorily required. |

Quantitative summary of the module25):

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| Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module18) - base for quantifying ECTS2: | 30 h |
| Total ECTS points, accumulated by students during contact learning: | 2 ECTS |
| Total ECTS points, accumulated by student during practical classes (laboratories, projects, seminars, etc.): | 2 ECTS |

Learning outcomes of the module relative to the learning outcomes of the subject26):

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| Outcome No / symbol | Learning outcomes: | Relative to the learning outcomes of the subject: |
| 01 | has a basic economic knowledge about the functioning of global markets for agricultural and food products; |  |
| 02 | analyzes and assesses the economic effects of organic production |  |
| 03 | is able to work individually and in a group, assuming different roles in it, aiming to achieve the assumed goal |  |